SONY

Micro HI-FI Component System

Operating Instructions

Owner's Record

The model and serial numbers are located on the rear of the unit. Record these numbers in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

DVD VIDEO

COMPACT disc DIGITAL VIDEO

S-master Digital Amplifier

Bluetooth™

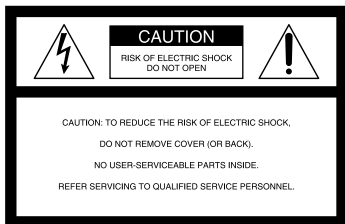**SIRIUS** READY

(((XM))) READY

CMT-DH7BT

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Notice for the customers in the U.S.A.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

The following FCC statement applies only to the version of this model manufactured for sale in the U.S.A. Other versions may not comply with FCC technical regulations.

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has a very low RF energy level that is deemed to comply with FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 20cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and legs).

About this manual

- Icons, such as **C D**, listed at the top of each explanation indicate what kind of media can be used with the function being explained.
- The English on-screen display is used for illustration purposes only.
- The Control Menu items may be different depending on the disc.
- The Setup Menu items may be different depending on the area.

Table of Contents

Playable discs

Type	Characteristics	Icon used in this manual	Logo
DVD VIDEO	• DVD VIDEO • DVD-R*/-RW*/+R/+RW in DVD VIDEO format * also in video mode	DVD-V	
VR mode	• DVD-R/-RW in VR (Video Recording) mode	DVD-VR	
VIDEO CD	• VIDEO CD • Super VCD* • CD-ROM*/-R*/-RW* * in VIDEO CD or Super VCD format	VIDEO CD	
CD	• AUDIO CD* • CD-R*/-RW* * in AUDIO CD format	C D	
DATA CD	• CD-ROM/-R/-RW in DATA CD format, containing MP3 audio tracks[1] and/or JPEG image files[2], and conforming to ISO 9660[3] Level 1 or Level 2, or Joliet (expansion format).	DATA CD	
DATA DVD	• DVD-ROM/-R/-RW/+R/+RW in DATA DVD format containing MP3 audio tracks[1] and/or JPEG image files[2], and conforming to UDF (Universal Disk Format).	DATA DVD	

This system can also play back discs with the following disc logos:

[1] MP3 (MPEG 1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data. MP3 audio tracks must be in MPEG 1 Audio Layer 3 format.

[2] JPEG image files must conform to the DCF image file format. (DCF "Design rule for Camera File System": Image standards for digital cameras regulated by Japan Electronics and Information Technology Industries Association (JEITA)).

[3] A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

"DVD+RW," "DVD-RW," "DVD+R," "DVD VIDEO," and the "CD" logos are trademarks.

5^{GB}

Discs that cannot be played

- CD-ROMs recorded in PHOTO CD format
- DATA CDs recorded in MP3 PRO format
- Data part of CD-Extras[1]
- Data part of Mixed CDs[2]
- Super Audio CDs
- DVD Audio discs
- DVD-RAMs
- A DVD VIDEO with a different region code.
- A disc that has a non-standard shape (e.g., heart, square, star).
- A disc that has the adhesive cellophane tape or a sticker still left on it.

[1] CD-Extra: This format records audio (AUDIO CD data) on the tracks in session 1 and data on the tracks in session 2.

[2] Mixed CD: This format records data on the first track and audio (AUDIO CD data) on the second and subsequent tracks of a session.

Region code of DVD VIDEOs you can play back on this system

Your system has a region code printed on the back of the unit and will only play back DVD VIDEOs labeled with identical region code.
DVD VIDEOs labeled 🌐 will also be played back on this system.
If you try to play back any other region code DVD VIDEO, the message "Playback prohibited by area limitations." will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be labeled even though playing the DVD VIDEO is prohibited by area restrictions.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Notes on CD-R/-RW and DVD-R/-RW/+R/+RW

- In some cases, CD-Rs/-RWs and DVD-Rs/-RWs/+Rs/+RWs cannot be played back on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. The disc will not be played back if it has not been correctly finalized. For more information, see the operation instructions for the recording device.
- Note that some playback functions may not work with some DVD+Rs/+RWs, even if they have been correctly finalized. In this case, view the disc by normal playback.
- A disc created in Packet Write format cannot be played back.

Note on playback operations of DVD VIDEOs and VIDEO CDs

Some playback operations of DVD VIDEOs and VIDEO CDs may be intentionally set by software producers.

Since this system play back DVD VIDEOs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVD VIDEOs or VIDEO CDs.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Notes on Multi Session disc

- This system can play back Multi Session discs when an MP3 audio track (or a JPEG image file) is contained in the first session. Any subsequent MP3 audio tracks (or JPEG image files) recorded in later sessions can also be played back.
- If the first session is recorded in AUDIO CD or VIDEO CD format, only the first session will be played back.
- The system will recognize a Multi Session disc as an AUDIO CD if there is a session recorded in AUDIO CD format on the disc. However, the system will only play back the disc if the first session is recorded in AUDIO CD format.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

- This system incorporates Dolby* Digital and the DTS** Digital Surround System.
  - * Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
  - ** Manufactured under license from Digital Theater Systems, Inc. "DTS" and " DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.
- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sony Corporation is under license. Other trademarks and trade names are those of their respective owners.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- The XM name and related logos are registered trademarks of XM Satellite Radio Inc.
- (c) 2006 SIRIUS Satellite Radio Inc. "SIRIUS" and the SIRIUS dog logo are registered trademarks of SIRIUS Satellite Radio Inc.
- ™ and ® marks are omitted in this manual.

7^{GB}

Guide to parts and controls

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Unit (HCD-DH7BT/DVD Receiver)

Front panel
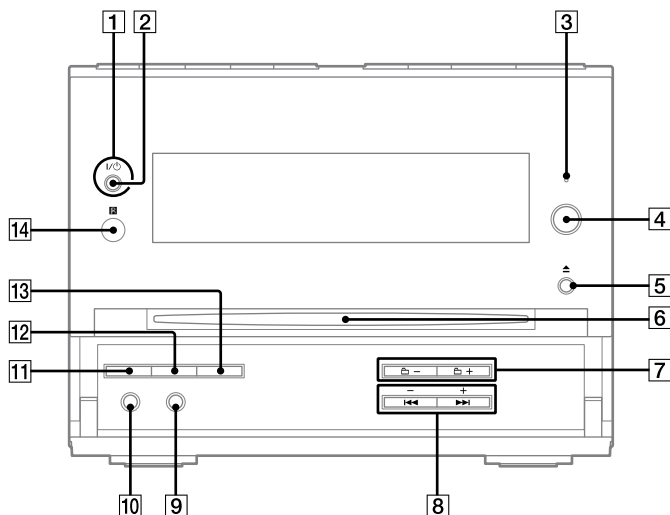
Top panel
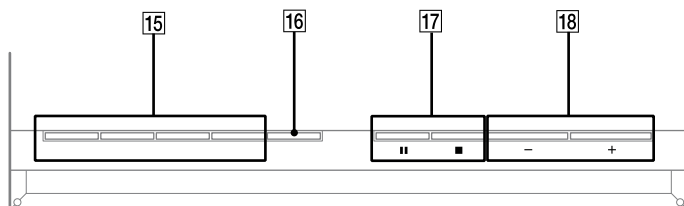
Remote control (RM-SCD30)
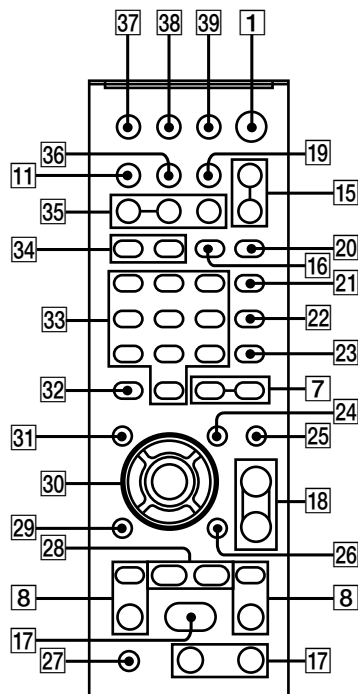
① Unit: **I**/⏻ (on/standby) (19, 20, 48, 59, 72)
Remote: TV **I**/⏻[1] (on/standby) (19)
Press to turn on the system.
Press to turn on the TV.

② STANDBY indicator (66)
Lights up when the system is turned off.

③ BLUETOOTH indicator (56, 57)
Lights up when the Bluetooth function is active.

④ BLUETOOTH OPR (55, 56, 57)
Press to make a connection, disconnection, or pairing with a Bluetooth device.

⑤ ▲ (eject) (24)
Press to eject the disc.

⑥ Disc slot

⑦ ⌷ +/− (21, 23, 53)
Press to select an album.

⑧ PRESET +/− (49)
Press to select the preset station.
I◄◄/►►I (go backward/forward) (23, 35, 55)
Press to select a track or file.
Remote: TV CH +/−[1] (19)
Press to change the TV channels.
Remote: SLOW ◄�**/**I► (24)
Press to watch the slow-motion play.
Remote: TUNING +/− (48, 49)
Press to tune in the desired station.
◄◄/►► (rewind/fast forward) (23, 55)
Press to find a point in a track or file.

⑨
AUDIO IN jack (64)
Connect to an optional audio component.

⑩
PHONES jack
Connect the headphones.

⑪
DISPLAY (60, 61)
Press to display the disc information or clock in the front panel display.

⑫
PROGRESSIVE (18, 64)
Press to change the output video format (Interlace or Progressive format).

⑬
DSGX (58)
Press to reinforce the bass.

⑭
IR Receptor

⑮
Unit: DVD ▶ (play) (18, 23)
Press to select the DVD function.
Press to start playback of a disc.

Unit: BLUETOOTH ▶ (53, 54)
Press to select the Bluetooth function.
Press to start playback of the music on the Bluetooth device (Bluetooth mobile phone, etc.).

Unit: TUNER/BAND (48)
Press to select the TUNER function.
Press to switch among FM, AM, XM and SIRIUS band.

Unit: AUDIO IN
Press to select the AUDIO IN function.

FUNCTION +/— (18, 23, 48, 53, 54, 56, 57)
Press to select the function.

⑯
Unit: REPEAT/FM MODE (30, 48)
Remote: FM MODE (48)
Remote: REPEAT (30)
Press to select FM reception mode (monaural or stereo).
Press to listen to a disc, a single track or file repeatedly.

⑰
■ (stop) (23, 48, 55)
❚❚ (pause) (23, 55)
Press to stop or pause playback.
Remote: ▷²⁾ (play) (23, 28, 35, 42, 54)
Press to start playback.

⑱
VOLUME +/—²⁾ (23, 49, 54, 57)
Press to adjust the volume.
TV VOL +/—¹⁾²⁾ (19)
Press to adjust the TV volume.

⑲
DIMMER (60)
Press to adjust the brightness of the display.

⑳
PICTURE NAVI (33)
Press to select the VIEWER format for searching the chapters, titles and tracks.
Press to display the thumbnail pictures.

21

AUDIO (25, 63)

Press to display the current audio signal on the TV screen.

22

SUBTITLE (24)

Press to switch the language of the subtitle (DVD VIDEO).

23

ANGLE (24)

Press to change the angle (DVD VIDEO with multi-angles only).

24

DVD/TUNER MENU (31, 35, 37, 49, 50)

Press to display the MENU items on the TV screen.

Press to preset the radio station.

25

EQ (58)

Press to select the sound effect.

26

DISPLAY (20, 27, 31, 37, 39, 43, 63)

Press to display the Control Menu on the TV screen.

27

TV[1] (19)

Press to operate the TV functions.

28

ADVANCE •→ (24)

Press to advance the current scene during playback.

REPLAY ←• (24)

Press to replay the previous scene during playback.

◄II STEP/ STEP II► (24)

Press to play one frame at a time when playback is paused.

29

⮌ RETURN (26)

Press to return to the previous menu on the TV screen.

30

▲/▼/◄/► (20, 27, 31, 35, 50, 59)
Press to select the MENU items.
ENTER (19, 33, 49)
Press to enter the settings.

31

DVD TOP MENU (31)

Press to display the DVD title on the TV screen.

32

CLEAR (28, 32, 50, 54, 56)

Press to delete a pre-programmed track or file.
Press to delete a number entry.
Press to erase the pairing registration information of the Bluetooth device.
-/--[1]
Press to enter a single digit or double digit number.

33

Numeric buttons[2] (19, 23, 26, 31, 40, 49, 50, 53)

Press to select a track, file or satellite channel.
Press to enter a Parental Lock password.
Press to enter a Bluetooth passcode.
10/0[2]
Press to enter a double digit number.

11^{GB}

34

XM (48)

Press to select XM band.

SIRIUS (48, 50)

Press to select SIRIUS band.

35

CATEGORY +/— (49)

Press to select a satellite radio category.

CATEGORY MODE (49)

Press to select the tuning mode for XM or SIRIUS band.

36

TIME/TEXT (61)

Press to change the information in the front panel display.

37

TV/VIDEO[1] (19)

Press to switch the input sources.

SLEEP (59)

Press to set the Sleep Timer.

38

TIMER MENU (19, 59)

Press to set the clock and the timers.

39

THEATRE SYNC (22)

Press to activate the THEATRE SYNC function.

[1] This button is used to operate a Sony TV. For details, see "Operating a Sony TV" (page 19).

[2] The numeric button 5, TV VOL +, VOLUME + 18 and ▷ 17 buttons have a tactile dot. Use the tactile dot as a reference when operating the system.

Display
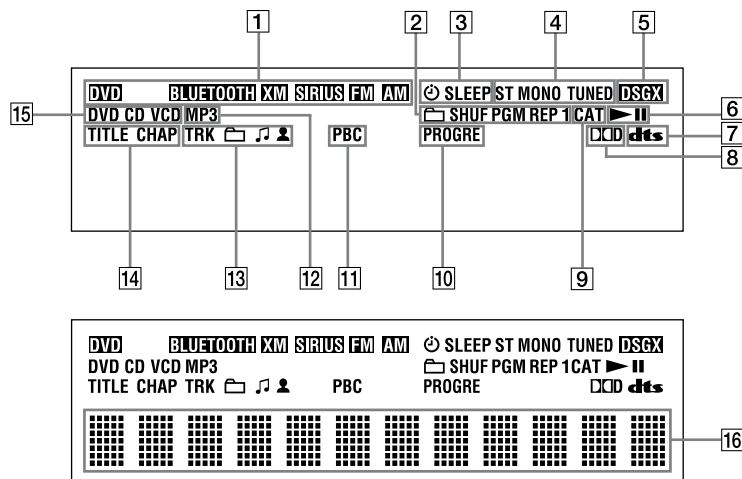
① Indicates the selected function.
② Indicates the selected play mode. (27)
③ Lights up when timer is set. (59)
④ Lights up when a station is tuned in. (48)
⑤ Lights up when DSGX is turned on. (58)
⑥ Indicates the Playback status.
⑦ Lights up when DTS is selected. (47)
⑧ Lights up when Dolby Digital is selected. (47)
⑨ Lights up when CATEGORY MODE is selected. (49)

⑩ Lights up when "P AUTO" or "P VIDEO" is selected. (18)
⑪ Lights up when playing VIDEO CD with PBC. (26)
⑫ Lights up when playing an MP3 audio track. (35)
⑬ Indicates the track/album information.
⑭ Lights up when chapter or title number is displayed.
⑮ Indicates the type of disc being played back. (23)
⑯ Displays the text information.

Hooking up the system

Wall socket

ANTENNA

AM

FM 75Ω COAXIAL

SIRIUS

XM

DIGITAL OUT

OPTICAL

SPEAKER

R

IMPEDANCE USE 6Ω

COMPONENT VIDEO OUT

Y

S VIDEO OUT

VIDEO OUT

Right speaker ←

Left speaker ←

Wall socket

or

A B C D E
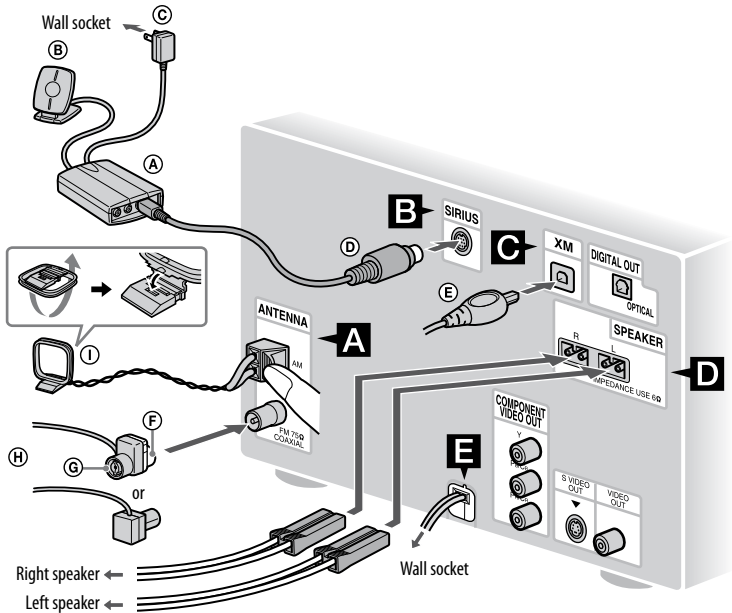
Ⓐ SiriusConnect Home tuner (not supplied)
Ⓑ Satellite Radio Home Antenna (not supplied)*
Ⓒ AC power adaptor (not supplied)*
Ⓓ DIN cable (not supplied)*
Ⓔ XM Mini-Tuner and Home Dock (not supplied)
Ⓕ White side for North American model
Ⓖ Brown side for other regions
Ⓗ FM lead antenna (Extend it horizontally.)
Ⓘ AM loop antenna
* Supplied with SiriusConnect Home tuner

Ⓐ FM/AM antennas

Find a location and an orientation that provide good reception, and then set up the antenna.
Keep the antennas away from the speaker cords and the power cord to avoid picking up noise.

B SIRIUS Tuner

Connect the SiriusConnect Home tuner. When you use the SiriusConnect Home tuner with this system, be sure to connect the AC power adaptor supplied with the tuner to a wall socket. For detail, see "Receiving the SIRIUS Satellite Radio" (page 17).
Keep the SiriusConnect Home tuner, antenna, and AC power adaptor away from the speaker cords and the power cord to avoid picking up noise.

C XM antenna

Connect the XM Mini-Tuner and Home Dock. For details, see "Receiving the XM Satellite Radio" (page 16)

D Speakers

E Power

Connect the power cord to a wall socket. If the supplied adaptor on the plug does not fit your wall socket, detach it from the plug (only for models equipped with an adaptor).

Inserting two R6 (size AA) batteries into the remote

Slide and remove the battery compartment lid, and insert the two supplied R6 (size AA) batteries, ⊖ side first, matching the polarities shown below.
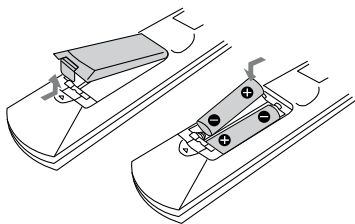
Note
If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Tip
With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

Attaching the speaker pads

Attach the supplied speaker pads at each corner on the bottom of the speakers to stabilize the speakers and to prevent them from slipping.
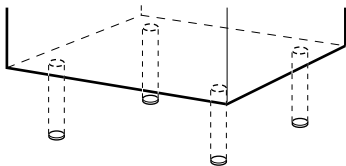
When carrying this system

Perform the following procedure to protect the DVD mechanism.
Use buttons on the unit for the operation.

1 Press I/⏻ [1] to turn on the system, then press DVD ► [15].

2 Make sure that no disc is loaded in the system and check that "No Disc" appears.

3 Press I/⏻ [1] to turn off the system and check that "STANDBY" disappears.

4 Unplug the power cord.

15^{*GB*}

Receiving the XM Satellite Radio

ABOUT XM SATELLITE RADIO

XM offers over 170 digital radio channels: the most commercial-free music channels, premier news, sports, talk, and traffic and weather in 21 metro markets. XM's on-air hosts broadcast live from studios in Washington, D.C., New York City and Nashville.
For more information or to subscribe in the US, visit xmradio.com or call Listener Care at 1-800-XMRADIO (1-800-967-2346).

XM READY® LEGAL

XM monthly service subscription sold separately. XM Mini-Tuner and Home Dock required (each sold separately) to receive XM service. Installation costs and other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO (1-800-967-2346). For a full listing of the XM commercial-free channels and advertising supported channels, visit lineup.xmradio.com. Subscriptions subject to Customer Agreement available at xmradio.com. XM service only available in the 48 contiguous United States. XM Satellite Radio and XM Ready are trademarks of XM Satellite Radio Inc. (C)2006 XM Satellite Radio Inc. All rights reserved.

XM READY® SUBSCRIPTIONS

Once you have installed the XM Mini-Tuner Dock, inserted the XM Mini-Tuner, connected the XM Dock to your XM Ready® home audio system, and installed the antenna, you are ready to subscribe and begin receiving XM programming.

There are three places to find your eight character XM Radio ID: on the XM Mini-Tuner, on the XM Mini-Tuner package, and on XM Channel 0. Record the Radio ID in the following eight squares for reference.
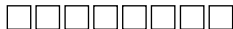
Note: The XM Radio ID does not use the letters "I", "O", "S" or "F". Activate your XM Satellite Radio service in the U.S. online at http://activate.xmradio.com or call 1-800-XM-RADIO (1-800-967-2346). You will need a major credit card. XM will send a signal from the satellites to activate the full channel lineup. Activation normally takes 10 to 15 minutes, but during peak busy periods you may need to keep your XM Ready home audio system on for up to an hour. When you can access the full channel lineup on your XM Ready home audio system you are done.

Receiving the SIRIUS Satellite Radio

SIRIUS Satellite Radio: The Best Radio On Radio

SIRIUS brings all your favorite entertainment including 100% commercial-free music, plus superior sports coverage, uncensored talk and comedy, world-class entertainment, news, weather and more for your car, home or office.

Sirius is available in the US for subscribers with addresses in the continental US and is available in Canada for subscribers with a Canadian address. Required subscription plus compatible SiriusConnect Home Tuner with antenna are required and sold separately. SIRIUS Programming is subject to change. Visit sirius.com or siriuscanada.ca for the most complete and up-to-date channel lineup and product information. "SIRIUS" and the SIRIUS dog logo and related marks are trademarks of Sirius Satellite Radio Inc. All rights reserved.

To Subscribe to SIRIUS Satellite Radio

Purchase and connect a SiriusConnect Home Tuner to your Sirius Ready home audio system. You are then ready to activate and subscribe to Sirius by either calling 1.888.539.SIRIUS (7474) or log on to sirius.com. It is that easy.

Hooking up the TV

Connect the video input jack of your TV to the VIDEO OUT jack with the supplied video cord.
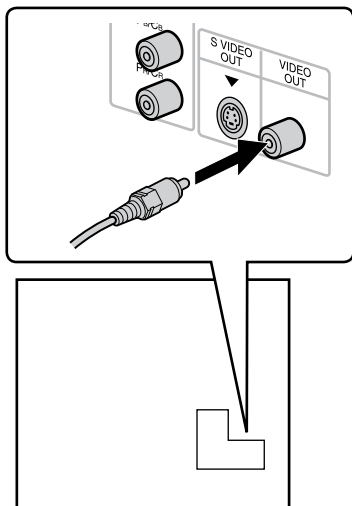
When connecting a video deck

Connect the video deck to the TV using a video cord (not supplied). However, do not connect this unit to the TV through the video deck. Otherwise, you may experience video leakage when watching video images from this system. Connect this unit directly to the TV as shown below.

17^{GB}
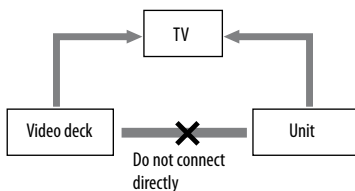
Tip

For higher quality video images:

— Use the optional component video cords to connect the COMPONENT VIDEO input jacks on your TV to the COMPONENT VIDEO OUT jacks of this unit. If your TV is compatible with progressive format file signals, use this connection and press PROGRESSIVE $\boxed{12}$ on the unit repeatedly until "P AUTO" or "P VIDEO" appears in the display (see below).

— You can use an optional S Video cord to connect the S VIDEO input jack on your TV to the S VIDEO OUT jack of this unit.

Changing the format of the video signal output from COMPONENT VIDEO OUT jacks

Progressive is a method for displaying TV images that reduces flickering and sharpens the image. To use this method, you need to connect to a TV that can accept progressive signals.
You can output video signals from COMPONENT VIDEO OUT jacks in Interlace or Progressive format.

1 Press FUNCTION +/− $\boxed{15}$ repeatedly to select "DVD" (or press DVD ► $\boxed{15}$ on the unit).

2 Press PROGRESSIVE $\boxed{12}$ on the unit repeatedly.

Select "P AUTO" or "P VIDEO" if your TV accepts progressive signals and the TV is connected to the COMPONENT VIDEO OUT jacks. Otherwise, select "INTERLACE."

P AUTO (PROGRESSIVE AUTO):
The system automatically detects the software type and selects the appropriate conversion method.

P VIDEO (PROGRESSIVE VIDEO):

The system fixes the conversion method to PROGRESSIVE VIDEO for video-based software.
Select this if the image is not clear when you select "P AUTO."

About DVD VIDEO software types and the conversion method

The DVD VIDEO software can be divided into 2 types:

• Film-based software
Film-based software is derived from film and displays the images at 24 frames per second.

• Video-based software
Video-based software is derived from TV, such as dramas and sitcoms and displays images at 30 frames or 60 fields per second.

Some DVD VIDEO contains both types of software. In order for these images to appear in your TV naturally when the video output is in progressive format, the progressive signals need to be converted to match your DVD VIDEO software.

Note
There would be no image on your TV or the image is not clear if your setting does not match your TV or connection.

When using a TV

Turn on the TV and select the video input so that you can view the pictures from this system.

Operating a Sony TV

You can use the following buttons to operate a Sony TV. These buttons have been marked in orange.

To	Press
Turn the TV on or off	TV I/⏻ 1 while holding down TV 27.
Switch the TV's input source between the TV and other input sources	TV/VIDEO 37 while holding down TV 27.
Select the TV channels	TV CH +/− 8 or numeric buttons 33 * while holding down TV 27.
Adjust the volume of the TV speaker(s)	TV VOL +/− 18 while holding down TV 27.

* For double digit number, hold down TV 27 and press -/-- 32, then press the number. (For example, hold down TV 27, press -/-- 32, then 2 and 5 for entering 25.)

Setting the clock

Use buttons on the remote to set the clock.

1 Press I/⏻ 1 to turn on the system.

2 Press TIMER MENU 38.
The hour indication flashes in the display.
If "PLAY SET?" flashes in the display, press ↑ or ↓ 30 repeatedly to select "CLOCK SET?," then press ENTER 30.

3 Press ↑ or ↓ 30 repeatedly to set the hour.

4 Press ENTER 30.
The minute indication flashes in the display.

5 Press ↑ or ↓ 30 repeatedly to set the minutes.

6 Press ENTER 30.
The clock starts functioning.

Note
The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

To display the clock when the system is off

Press DISPLAY 11.
The clock is displayed for about 8 seconds.

19^{GB}

Performing QUICK SETUP

Before using the system, you can make the minimum basic adjustments in QUICK SETUP. If you do not want to perform QUICK SETUP, press CLEAR 32 in step 3. The guide message will disappear from the TV screen.

1 Turn on your TV and select the video input.

2 Press I/⏻ 1 to turn on the system.
Note
Make sure there is no disc in the unit. Otherwise, the guide message does not appear. To perform QUICK SETUP, press ⏏ 5 on the unit to remove the disc.

3 Press FUNCTION +/− 15 repeatedly to select "DVD" (or press DVD ▶ 15 on the unit).
The guide message appears at the bottom of the TV screen.

4 Press ENTER 30 without inserting a disc.
"LANGUAGE SETUP" appears on the TV screen.

```
LANGUAGE SETUP
OSD:                    ENGLISH
MENU:                   ENGLISH
AUDIO:                  FRENCH
SUBTITLE:               SPANISH
                     PORTUGUESE
```

5 Press ✦ or ✦ 30 repeatedly to select a language, then press ENTER 30.
The setting is selected and "SCREEN SETUP" appears on the TV screen.
Tips
• The selected language is for "OSD," "MENU" and "SUBTITLE ."
• The selectable language is different depending on the area.

6 Press ✦ or ✦ 30 repeatedly to select the setting that matches your TV type.

If you have a 4:3 standard TV:
Select "4:3 LETTER BOX" or "4:3 PAN SCAN" (page 45)

If you have a wide-screen TV or a 4:3 standard TV with wide-screen mode:
Select "16:9" (page 45)

7 Press ENTER 30.
The setting is selected and "QUICK SETUP is complete." appears on the TV screen.
The system is ready for playback. If you want to change each setting individually, see "Using the DVD setup menu" (page 43).

To quit QUICK SETUP
Press ⬚ DISPLAY 26.

To recall QUICK SETUP display

1 Press ⬚ DISPLAY [26] when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ✚ or ✚ [30] repeatedly to select ▦ (SETUP), then press ENTER [30].

3 Press ✚ or ✚ [30] repeatedly to select "QUICK," then press ENTER [30].

Note
The guide message appears at the bottom of the TV screen when you turn on the system for the first time or after performing "RESET" (page 72).

Using the THEATRE SYNC function

THEATRE SYNC allows you to turn on your Sony TV and this system, changes the system's function to "DVD" and then switches the TV's input source you have set with just one button.

Preparing to use the THEATRE SYNC function

Register the TV's input source connected to this system.

To select the TV's input
Press the following buttons while holding down SLEEP [37].

Press	TV's input source
0	No input source (Default)
1 to 8	VIDEO 1 to VIDEO 8
9	COMPONENT 1
CLEAR [32]	COMPONENT 2
▭ − [7]	COMPONENT 3
▭ + [7]	COMPONENT 4

The selected TV's input source is memorized into the remote.

21^{GB}

Operating the THEATRE SYNC function

Keep the remote pointed in the direction of the TV until the TV is turned on and the input source is changed correctly, then press THEATRE SYNC ⧈39.

If this function does not work, change the transmission time. The transmission time varies depending on the TV.

To change the transmission time

Press the following buttons while holding down ►►I ⧈8.

Press	Transmission time
1	0.5 (Default)
2	1
3	1.5
4	2
5	2.5
6	3
7	3.5
8	4

Disc

Playing a disc
— Normal Play

`DVD-V` `DVD-VR` `VIDEO CD` `C D` `DATA CD`
`DATA DVD`

Depending on the DVD VIDEO or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with the disc.

Example: When playing a DVD VIDEO

Title number   Elapsed playing time

1 Press FUNCTION +/− ⑮ repeatedly to select "DVD" (or press DVD ▶ ⑮ on the unit).

2 Insert a disc in the disc slot ⑥ with the label side facing up.
If the playback does not start automatically, press ▷ ⑰ (or DVD ▶ ⑮ on the unit).
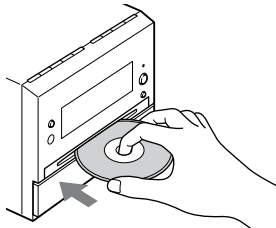
3 Press VOLUME +/− ⑱ to adjust the volume.

Notes
- Depending on the system status, the volume level may not appear on the TV screen.
- When you turn on the system, the disc is not pulled into the disc slot ⑥ until "No Disc" appears in the display. Do not attempt to push in the disc until "No Disc" appears.
- Do not load an 8 cm disc with an adaptor. Doing so may cause the system to malfunction.
- When you remove a disc, handle the disc by its edge and pull it straight out of the disc slot ⑥. Do not touch the surface.

Other operations

To	Press
Stop playback	■ ⑰.
Pause playback	❙❙ ⑰. Press ❙❙ ⑰ again or ▷ ⑰ (or DVD ▶ ⑮ on the unit) to resume playback.
Select a track[1], chapter or video file	◀◀ or ▶▶❙ ⑧ repeatedly during playback. Or, press the numeric buttons ㉝ when the Control Menu is turned off, then press ENTER ㉚[2].
Select an album[3]	▱ +/− ⑦ repeatedly during playback or when playback is paused.
Locate a point quickly in fast forward or fast reverse (Lock Search)[4][5]	◀◀ or ▶▶ ⑧ during playback. Each time you press ◀◀ or ▶▶ ⑧, the playback speed changes cyclically. To return to normal playback, press ▷ ⑰ (or DVD ▶ ⑮ on the unit).

To	Press
Watch frame by frame (Slow-motion Play)[6]	SLOW ◀❙ or SLOW ❙▶ 8 when playback is paused. Each time you press SLOW ◀❙ or SLOW ❙▶ 8, the playback speed changes. To return to normal playback, press ▷ 17 (or DVD ▶ 15 on the unit).
Play one frame at a time (Freeze Frame)[6]	STEP ❙❙▶ 28 to go to the next frame when playback is paused. Press ◀❙❙ STEP 28[7] to go to the preceding frame when playback is paused. To return to normal playback, press ▷ 17 (or DVD ▶ 15 on the unit).
Replay the previous scene	REPLAY ◀• 28 during playback. (Instant Replay)[7]
Briefly fast forward the current scene	ADVANCE •▶ 28 during playback. (Instant Advance)[7]
Switch to DVD function from another source	FUNCTION +/− 15 repeatedly (or press DVD ▶ 15 on the unit) (Automatic Source Selection).
Remove the disc	▲ 5 on the unit.

[1] You cannot select an audio track during Lock Search operation of MP3 audio tracks.
[2] DVD VIDEO, DVD-R/-RW in VR mode, VIDEO CD and AUDIO CD only.
[3] MP3 audio tracks and JPEG image files only.
[4] Except for JPEG image files.
[5] Depending on the disc, the actual speed may differ.

[6] DVD VIDEO, DVD-R/-RW in VR mode, and VIDEO CD only.
[7] DVD VIDEO and DVD-R/-RW in VR mode only.

Notes
- You cannot search for a still picture on a DVD-R/-RW in VR mode.
- You may not be able to use the Instant Replay or Instant Advance function in Repeat Play mode or with some scenes.

Displaying multi-angles and subtitles

Changing the angles

(DVD VIDEO only)
You can change the viewing angle while playing a DVD VIDEO on which various angles (multi-angles) for a scene are recorded.

Press ANGLE 23 repeatedly during playback. Each time you press ANGLE 23, the angle changes.

Note
Depending on the DVD VIDEO, you may not be able to change the angle, even if multi-angles are recorded on the DVD VIDEO.

Displaying the subtitles

(DVD VIDEO and DVD-R/-RW in VR mode only)
You can turn the subtitles on or off while playing a DVD VIDEO or DVD-R/-RW in VR mode on which subtitles are recorded. You can also change the language of the subtitles with DVD VIDEO, DVD-R/-RW in VR mode on which multilingual subtitles are recorded.

Press SUBTITLE 22 repeatedly during playback. Each time you press SUBTITLE 22, the subtitle language changes or turns off.

Note

Depending on the DVD VIDEO, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD VIDEO. You also may not be able to turn the subtitles off.

Other useful functions

Changing the sound

When playing a DVD VIDEO recorded in multiple audio formats, you can select the audio format you want. If the DVD VIDEO is recorded with multilingual tracks, you can also change the language.

When playing a VIDEO CD, AUDIO CD or MP3 audio tracks, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. For example, when playing a track with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.

Press AUDIO 21 repeatedly during playback to select the audio signal you want.
The default settings are underlined.

When playing a DVD VIDEO:

Depending on the DVD VIDEO, the option of language and audio format varies.
When a 4-digit number is displayed, the digits represent a language code (see "Language code list" (page 82)). When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats. Note that the sound changes automatically depending on the disc.

When playing a DVD-R/-RW in VR mode:

The number of audio tracks recorded on a disc is displayed.
Example:
- 1: MAIN: the main sound of the audio track 1.
- 1: SUB: the sub sound of the audio track 1.
- 1: MAIN+SUB: the main and sub sound of the audio track 1.
- 2: MAIN*: the main sound of the audio track 2.
- 2: SUB*: the sub sound of the audio track 2.
- 2: MAIN+SUB*: the main and sub sound of the audio track 2.
* These items do not appear if only one audio stream is recorded on the disc being played back.

When playing a VIDEO CD, AUDIO CD, or MP3 audio track:

- STEREO: the standard stereo sound.
- 1/L: the sound of the left channel (monaural).
- 2/R: the sound of the right channel (monaural).

When playing a Super VCD:

- 1: STEREO: the stereo sound of the audio track 1.
- 1: 1/L: the sound of the left channel of the audio track 1 (monaural).
- 1: 2/R: the sound of the right channel of the audio track 1 (monaural).
- 2: STEREO: the stereo sound of the audio track 2.
- 2: 1/L: the sound of the left channel of the audio track 2 (monaural).
- 2: 2/R: the sound of the right channel of the audio track 2 (monaural).

Disc

25^{GB}

Playing VIDEO CDs with PBC functions (Version 2.0) — PBC Playback

(VIDEO CD only)
You can use the PBC (Playback Control) menus on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

1 Press ▷ 17 (or DVD ► 15 on the unit) to start playing a VIDEO CD with PBC functions (Version 2.0).
The PBC menu appears on the TV screen. Depending on the VIDEO CD, the menu may not appear.

2 Press the numeric buttons 33 to select the item number you want.

3 Press ENTER 30.
Depending on the VIDEO CD, "Press ENTER" may appear as "Press SELECT" in the operating instructions supplied with the disc. In this case, press ▷ 17 (or DVD ► 15 on the unit).

4 Continue playback according to the instructions on the menus.
Refer to the operating instructions supplied with the VIDEO CD, as the operating procedure may differ depending on the VIDEO CD.

To return to the previous menu
Press ⟳ RETURN 29.

Note
PBC playback is canceled when Shuffle Play, Program Play or Repeat Play is activated.

To cancel playback with PBC functions

1 Press ⏮ or ⏭ 8 repeatedly or press the numeric buttons 33 to select a track when playback is stopped.

2 Press ▷ 17 (or DVD ► 15 on the unit) or ENTER 30.
Playback starts from the selected track. Still images, such as the menu screens, will not be shown.
To return to PBC playback, press ■ 17 twice, then press ▷ 17 (or DVD ► 15 on the unit).

Resuming playback from the point you stopped the disc — Resume Play

This system memorizes the point where you stopped the disc so you can resume playback from that point. Resume Play is not canceled when you turn off the system except for MP3 audio tracks and JPEG image files.

1 While playing a disc, press ■ 17 to stop playback.
"Resume" appears in the display.
If "Resume" does not appear, Resume Play is not available.

2 Press ▷ 17 (or DVD ► 15 on the unit).
The system starts playback from the point you stopped the disc in step 1.

Notes
- You cannot perform Resume Play during Shuffle Play or Program Play.
- This function may not work properly with some discs.
- Resume Play is canceled when
  — you press ■ 17 when playback is stopped.
  — you eject the disc.
  — you change the function.
  — you change the settings in the Setup Menu.

- Depending on where you stopped the disc, the system may not resume playback from the exact same point.
- If "MULTI-DISC RESUME" is set to "ON," Resume Play is not canceled for DVD VIDEO and VIDEO CD when you eject the disc or change the function.

Tip
To play back from the beginning of the disc, press ■ 17 twice, then press ▷ 17 (or DVD ▶ 15 on the unit).

Resuming playback of a disc that was stopped — Multi-disc Resume

(DVD VIDEO and VIDEO CD only)
This system can store the point where you stopped the playback of the disc for up to 40 discs and resumes playback when you insert the same disc again. If you store a playback resume point for the 41st disc, the playback resume point for the first disc will be deleted.
To activate this function, set "MULTI-DISC RESUME" in "CUSTOM SETUP" to "ON" (page 47).

Note
If "MULTI-DISC RESUME" in "CUSTOM SETUP" is set to "ON" and you play back a recorded disc such as DVD-R, the system may play back other recorded disc from the same playback resume point.
To start playback from the beginning of the disc, press ■ 17 twice and then ▷ 17 (or DVD ▶ 15 on the unit).

Using play mode

Creating your own program

— Program Play

| VIDEO CD | C D |

You can make a program of up to 99 steps in the order you want them to be played back.

1 Press ⊙ DISPLAY 26.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 30 repeatedly to select ⎕ 🐾 (PROGRAM), then press ENTER 30.
The options for "PROGRAM" appear on the TV screen.

3 Press ↑ or ↓ 30 repeatedly to select "SET→," then press ENTER 30.

```
PROGRAM              0 : 00 : 00
                         T
   ALL CLEAR
 1.TRACK    – –          – –
 2.TRACK    – –         ┌ 01
 3.TRACK    – –         │ 02
 4.TRACK    – –         │ 03
 5.TRACK    – –         │ 04
 6.TRACK    – –         │ 05
 7.TRACK    – –         │ 06
        ▼                ▼
```

Track number

27^{GB}

Disc
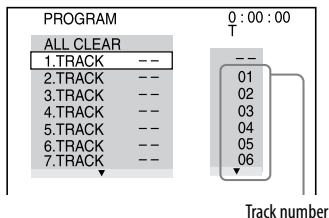
4 Press ➡ 30.

The cursor moves to the track list "T" (in this case, "01").

```
PROGRAM                    0 : 00 : 00
                           T
  ALL CLEAR
  1:TRACK      – –         – –
  2:TRACK      – –         01
  3:TRACK      – –         02
  4:TRACK      – –         03
  5:TRACK      – –         04
  6:TRACK      – –         05
  7:TRACK      – –         06
         ▼                    ▼
```

To change a programmed step:
Press ✚ or ✚ 30 repeatedly to select the programmed step number you want to change. Then, press ➡ 30.

To delete a programmed step:
Press ✚ or ✚ 30 repeatedly to select the programmed step number you want to change. Then, press CLEAR 32.

To delete all of the programmed steps in the program list:
Press ✚ 30 to select "ALL CLEAR." Then, press ENTER 30.

5 Select the track you want to program.

For example, select track "02."
Press ✚ or ✚ 30 repeatedly to select "02" under "T," then press ENTER 30.

Selected track

```
PROGRAM                    0:15:30
                           T
  ALL CLEAR
  1:TRACK      (0 2)       – –
  2:TRACK      – –         01
  3:TRACK      – –         02
  4:TRACK      – –         03
  5:TRACK      – –         04
  6:TRACK      – –         05
  7:TRACK      – –         06
         ▼                    ▼
```

Total time of the programmed tracks

6 To program other tracks, repeat steps 4 to 5.

7 Press ▷ 17 (or DVD ▶ 15 on the unit).

Program Play starts.
When the Program Play ends, you can restart the same program by pressing ▷ 17 (or DVD ▶ 15 on the unit).

To cancel Program Play

Press CLEAR 32 or select "OFF" in step 3. To play back the same program again, select "ON" in step 3 and press ENTER 30.

To turn off the Control Menu

Press ☐ DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes

- When Program Play is activated, the "REPEAT" setting is automatically changed to "ON" if the current setting is "DISC" or "TRACK."
- You cannot perform Program Play with VIDEO CDs during PBC playback.

Tip

The Program Play is canceled and the program list is cleared when

— you eject the disc.
— you turn off the system.
— you change the function.

28^{GB}

Playing in random order

— Shuffle Play

`VIDEO CD` `C D` `DATA CD` `DATA DVD`

You can play back the tracks on the current disc in random order. Each time you perform Shuffle Play, the playing order may differ.

1 Press ⬚ DISPLAY 26 during playback.

The Control Menu appears on the TV screen.

2 Press ✦ or ✦ 30 repeatedly to select ⬚ 🎵 (SHUFFLE), then press ENTER 30.

The options for "SHUFFLE" appear on the TV screen.

3 Press ✦ or ✦ 30 repeatedly to select the setting you want.

When playing a VIDEO CD or AUDIO CD:

• TRACK: all tracks on the disc is played back randomly.

When Program Play is activated:

• ON: all tracks in the program list is played back randomly.

When playing a DATA CD/DVD:

• ON: all MP3 audio tracks in the selected album on the disc are played back randomly.
When no album is selected, the first album is played back randomly.

4 Press ENTER 30.

Shuffle Play starts.
To cancel Shuffle Play, press CLEAR 32 or select "OFF" in step 3.

To turn off the Control Menu

Press ⬚ DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes
• Shuffle Play is canceled when
  — you eject the disc.
  — you turn off the system.
  — you change the function.
  — you perform Track/Index Search.
• You cannot perform Shuffle Play with VIDEO CDs during PBC playback.
• The same song may be played back repeatedly for MP3 audio tracks.

Playing repeatedly

— Repeat Play

`DVD-V` `DVD-VR` `VIDEO CD` `C D` `DATA CD` `DATA DVD`

You can play back all the titles, tracks, files or a single title, chapter, track or file on a disc repeatedly.
You can select Shuffle Play and Program Play at the same time.

1 Press ⬚ DISPLAY 26 during playback.

The Control Menu appears on the TV screen.

Disc

29^{GB}

2 Press ↑ or ↓ 30 repeatedly to select ![REPEAT] (REPEAT), then press ENTER 30.

The options for "REPEAT" appear on the TV screen.

3 Press ↑ or ↓ 30 repeatedly to select the setting you want.

The default setting is underlined.

When playing a DVD VIDEO or DVD-R/DVD-RW in VR mode:
- OFF: does not play back repeatedly.
- DISC: repeats all the titles on the disc.
- TITLE: repeats the current title.
- CHAPTER: repeats the current chapter.

When playing a VIDEO CD or AUDIO CD:
- OFF: does not play back repeatedly.
- DISC: repeats all the tracks on the disc.
- TRACK: repeats the current track.

When playing a DATA CD or DATA DVD:
- OFF: does not play back repeatedly.
- DISC: repeats all the albums on the disc.
- ALBUM: repeats the current album.
- TRACK*: repeats the current track.
- * MP3 audio tracks only.

When Program Play or Shuffle Play is activated:
- OFF: does not play back repeatedly.
- ON: repeats the Program Play or Shuffle Play.

4 Press ENTER 30.

Repeat Play starts.
To cancel Repeat Play, press CLEAR 32 or select "OFF" in step 3.

To turn off the Control Menu

Press ⚏ DISPLAY 26 repeatedly until the Control Menu disappears from the TV screen.

Notes
- You can also change the Repeat Play setting by pressing REPEAT 16 repeatedly.
- "REP" lights up in the display when Repeat Play is set to "DISC," "ALBUM" or "ON."
- "REP1" lights up in the display when Repeat Play is set to " TITLE," "CHAPTER," "TRACK" or "FILE."
- Depending on the DVD VIDEO, you cannot perform Repeat Play.
- You cannot perform Repeat Play with VIDEO CDs during PBC playback.
- When playing a DATA CD/DVD which contains MP3 audio tracks and JPEG image files, the audio sound will not match the image if their playing time are different.
- You cannot select "TRACK" when "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" (page 37).
- Repeat Play is canceled when
  — you eject the disc.
  — you turn off the system.
  — you change the function.

Searching/selecting a disc

Playing DVD VIDEOs using the menu

DVD-V

Some DVD VIDEOs have menus to help you enjoy the DVD VIDEOs. You can play back DVD VIDEOs using these menus on the TV screen.

Using DVD TOP MENU

A DVD VIDEO contains a lot of sections of picture or music feature called "title." When you play back a DVD VIDEO which contains several titles, you can select the title you want using DVD TOP MENU [31].

Using DVD MENU

Some DVD VIDEOs allow you to select the disc contents using a menu. When you play back these DVD VIDEOs, you can select items such as the language for the subtitles and the language for the sound using DVD/TUNER MENU [24].

1 Press DVD TOP MENU [31] or DVD/TUNER MENU [24].

The menu appears on the TV screen. The contents of the menu vary depending on the disc.

2 Press ▲/▼/◄/► [30] or the numeric buttons [33] to select the title or item you want to play back.

3 Press ENTER [30].

Selecting "ORIGINAL" or "PLAY LIST" on a DVD-R/-RW in VR mode

DVD-VR

This function is only available for DVD-Rs/-RWs in VR mode with a playlist created.

1 Press ⊙ DISPLAY [26] when playback is stopped.

The Control Menu appears on the TV screen.

2 Press ▲ or ▼ [30] repeatedly to select ▮ 🔄 (ORIGINAL/PLAY LIST), then press ENTER [30].

The options for "ORIGINAL/PLAY LIST" appear on the TV screen.

3 Press ▲ or ▼ [30] repeatedly to select the setting you want.

- PLAY LIST: play back according to the playlist created on the disc.
- ORIGINAL: play back according to the originally recorded sequence.

4 Press ENTER [30].

Disc

Using the on-screen display to search for a title/chapter/ scene/track/index/album/file

`DVD-V` `DVD-VR` `VIDEO CD` `CD` `DATA CD` `DATA DVD`

You can search by different information recorded on a disc, such as title, track, and album. Each item is assigned a unique number on the disc, and you can select the numbered item you want from the Control Menu. You can also search for a particular point using the time code (Time Search) (DVD VIDEO and DVD-R/-RW in VR mode only).

1 Press ⊡ DISPLAY 26. (When playing a DATA CD/DVD with JPEG image files, press ⊡ DISPLAY 26 twice.)

The Control Menu appears on the TV screen.

2 Press ✦ or ✦ 30 repeatedly to select the search item.

Example: when you select 🎬 (CHAPTER)

"** (**)" is selected (** refers to a number). The number in parentheses indicates the total number of titles, chapters, tracks, indexes, scenes, albums or files.

```
┌──────────────────────┐
│ 1 2 ( 2 7 )          │
│ 1 8 ( 3 4 )    DVD VIDEO │
│ T   1 : 3 2 : 5 5    │
│                      │
│          Selected row│
└──────────────────────┘
```
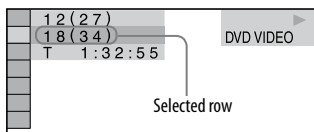
3 Press ENTER 30.

"** (**)" change to "– – (**)."

4 Press ✦ or ✦ 30 repeatedly or the numeric buttons 33 to select the title, track, album, etc. or file number.

If you make a mistake, press CLEAR 32 to cancel the number.

5 Press ENTER 30.

The system starts playback from the selected title, track, album, etc.

To turn off the Control Menu

Press ⊡ DISPLAY 26 repeatedly until the Control Menu disappears.

Tip
When the Control Menu display is turned off, you can search for a chapter (DVD VIDEO and DVD-R/-RW in VR mode) or track (AUDIO CD and VIDEO CD) by pressing the numeric buttons 33 and ENTER 30.

To search for a particular point using the time code — Time Search

(DVD VIDEO and DVD-R/-RW in VR mode only)

1 Press ⊡ DISPLAY 26.

2 Press ✦ or ✦ 30 repeatedly to select 🕐 (TIME/TEXT).

"T **:**:**" (elapsed playing time of the current title) is selected.

3 Press ENTER 30.

"T **:**:**" changes to "T--:--:--."

4 Input the time code using the numeric buttons 33, then press ENTER 30.

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, enter "2:10:20." If you make a mistake, press CLEAR 32 to cancel the number.

Note
Depending on the disc, you cannot perform Time Search.

Searching by scene

— Picture Navigation

`DVD-V` `VIDEO CD`

1 Press PICTURE NAVI 20 repeatedly to select the VIEWER format you want to search in.
- CHAPTER VIEWER (DVD VIDEO)
- TITLE VIEWER (DVD VIDEO)
- TRACK VIEWER (VIDEO CD or Super VCD)

2 Press ENTER 30.

The first scene of the first 9 chapters, titles or tracks appears. If there are more than 9 chapters, titles, or tracks, "▼" appears at the bottom right of the screen.

1	2	3	
4	5	6	
7	8	9	▼

3 Press ↑/↓/←/→ 30 to select a chapter, title or track, then press ENTER 30.

The system starts playing from the selected scene.

To cancel searching

Press ↻ RETURN 29 or ⌐ DISPLAY 26.

Note
Depending on the disc, you may not be able to select some items.

Tip
To display the remaining chapters, titles, or tracks, select a scene at the bottom row and press ↓ 30. To return to the previous scene, select a scene at the top row and press ↑ 30.

Disc

Playing MP3/JPEG discs

DATA CD **DATA DVD**

Notes

- Depending on the software you use to create the DATA CD or DATA DVD, the playback order may differ.
- The system can play back up to 200 albums, including albums that do not contain MP3 audio tracks and JPEG image files. The system will not play back any albums beyond the 200th album.
- The maximum number of MP3 audio tracks or JPEG image files on an album which this system can recognize is:
  - 600 when "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" or "IMAGE (JPEG)."
  - 300 when "MODE (MP3, JPEG)" is set to "AUTO."
- The system can play back MP3 audio tracks and JPEG image files. The system will play back any data with the extension ".MP3", ".JPG" or ".JPEG" even if they are not in MP3 or JPEG format. Playing this data may generate a loud noise which could damage your speaker system.
- Depending on the encoding/writing software, recording device, or the recording media used to record an MP3 audio track, you may encounter problems such as cannot play back, sound interruptions and noise.

- The following discs/situations can increase the time it takes to start playback:
  - a disc recorded with a complicated tree structure.
  - a disc recorded in Multi Session.
  - a disc to which data can be added (non-finalized disc).
  - when the tracks or files in another album have just been played back.
- Some CD-Rs/-RWs or DVD-Rs/-RWs/+Rs/ +RWs cannot be played back on the system depending on the file format.
- When playing a DATA CD or DATA DVD containing both MP3 audio tracks and JPEG image files, select "MODE (MP3, JPEG)" from the Control Menu after the disc's TOC reading is complete. If you want to play back
  - both MP3 audio tracks and JPEG image files, set "MODE (MP3, JPEG)" to "AUTO."
  - MP3 audio tracks only, set "MODE (MP3, JPEG)" to "AUDIO (MP3)."
  - JPEG image files only, set "MODE (MP3, JPEG)" to "IMAGE (JPEG)."
- The system can play back to a depth of 8 folders only.

Selecting an MP3 audio track or album

1 Insert a disc in the disc slot ⑥.

The system starts playing the first album.

2 Press DVD/TUNER MENU ㉔.

The album list appears on the TV screen.

```
 ⊞    3 ( 3 0 )

R O C K   B E S T   H I T
K A R A O K E
M Y   F A V O U R I T E   S O N G
R & B
J A Z Z
C L A S S I C
S A L S A   O F   C U B A
B O S S A   N O V A
                          ▾
```

3 Press ↑ or ↓ ㉚ repeatedly to select an album.

Playing an album:
Press ▷ ⑰ (or DVD ▶ ⑮ on the unit).
The system starts playback from the first track of the selected album.
To stop playback, press ■ ⑰.

Playing a track:

1 Press ENTER ㉚.

The list of MP3 audio tracks of the selected album appears.

```
 ⊞  M Y   F A V O U R I T E   S O N G
 ♫    1 ( 2 5 6 )

W A L T Z   F O R   D E B B Y
M Y   R O M A N C E
M I L E S   T O N E S
M Y   F U N N Y   V A L E N T I N E
A U T U M N   L E A V E S
A L L   B L U E S
S O M E D A Y   M Y   P R I N C E   W . . .
                          ▾
```

2 Press ↑ or ↓ ㉚ repeatedly to select the MP3 audio track you want, then press ENTER ㉚.

The system starts playing the selected MP3 audio track.
To stop playback, press ■ ⑰.

To display the next or previous page of track list or album list

Press ← or → ㉚ repeatedly when the track list or album list is displayed.

To play back the next album of MP3 audio tracks

You can select the next album by pressing ▶▶ ⑧ repeatedly until the last track of the current album, then press ▶▶ ⑧ once. The first track of the next album is selected. However, you cannot select the previous album by pressing ◀◀ ⑧ repeatedly. To select the previous album, select the album from the album list.

To return to the album list when the track list is displayed

Press ↩ RETURN ㉙.

To turn on or off the album list or track list

Press DVD/TUNER MENU ㉔ repeatedly.

Selecting a JPEG image file or album

1 Insert a disc in the disc slot ⑥.

The system starts playing the first album.

2 Press DVD/TUNER MENU ㉔.

The album list appears on the TV screen.

Disc

3 Press ✚ or ✚ **30** repeatedly to select an album.

Playing an album:
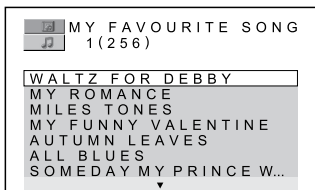Press ▷ **17** (or DVD ► **15** on the unit).
The system starts a slide show from the first image file of the selected album.
To stop playback, press ■ **17**.

Playing an image file:

1 Press PICTURE NAVI **20**.
Thumbnail picture for the first 16 JPEG image files in the selected album is displayed.

1	2	3	4	
5	6	7	8	
9	10	11	12	
13	14	15	16	

If there are more than 16 image files in the selected album, the scroll bar appears at the right.

2 Press ✚/✚/✚/✚ **30** to select the image you want to view, then press ▷ **17** (or DVD ► **15** on the unit).
The slide show starts from the selected image file.
To stop playback, press ■ **17**.
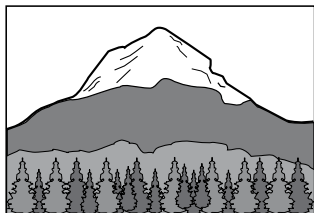
To display the next or previous page of album list

Press ✚ or ✚ **30** repeatedly when the album list is displayed.

To display the next or previous JPEG image file

Press ✚ or ✚ **30** repeatedly during the slide show.

To play back the next album of JPEG image files

You can select the next album by pressing ✚ **30** repeatedly until the last file of the current album, then press ✚ **30** once.
The first file of the next album is selected. However, you cannot select the previous album by pressing ✚ **30** repeatedly. To select the previous album, select the album from the album list.

To turn on or off the display of album list

Press DVD/TUNER MENU **24** repeatedly.

To rotate a JPEG image file

When a JPEG image file is displayed on the TV screen, you can rotate the image by 90 degrees.
Press ✚ or ✚ **30** repeatedly while viewing an image.
Press CLEAR **32** to return to the original view.

Notes

- The PICTURE NAVI **20** button does not work when "MODE (MP3, JPEG)" is set to "AUDIO (MP3)."
- When you press ✚ or ✚ **30** to select the next or previous image, the image will return to its original view even if you have rotated the image previously.
- The slide show stops when you press ✚ or ✚ **30**.

Playing MP3 audio tracks and JPEG image files as a slide show with sound

DATA CD **DATA DVD**

You can play back a slide show with sound by first placing both JPEG image files and MP3 audio tracks in the same album on a DATA CD/DVD.

1 Insert a disc in the disc slot 6.
The system starts playing the first album.

2 Press ■ 17 to stop playback.

3 Press ⊙ DISPLAY 26.
The Control Menu appears on the TV screen.

4 Press ↑ or ↓ 30 repeatedly to select 🔲 Ⓖ (MODE (MP3, JPEG)), then press ENTER 30.
The options for "MODE (MP3, JPEG)" appear on the TV screen. The default setting is underlined.

- AUTO: Plays back both JPEG image files and MP3 audio tracks in the same album as a slide show with sound.
- AUDIO (MP3): Plays back MP3 audio tracks continuously.
- IMAGE (JPEG): Plays back JPEG image files as a slide show.

5 Press ↑ or ↓ 30 repeatedly to select "AUTO," then press ENTER 30.

6 Press DVD/TUNER MENU 24.
The album list appear on the TV screen.

7 Press ↑ or ↓ 30 repeatedly to select the album you want, then press ▷ 17 (or DVD ► 15 on the unit).
The slide show with sound starts from the selected album.
To stop playback, press ■ 17.

To turn on or off the display of album list
Press DVD/TUNER MENU 24 repeatedly.

To cancel slide show with sound
Select "AUDIO (MP3)" or "IMAGE (JPEG)" in step 4.

Notes
- In some cases, you cannot change the "MODE (MP3, JPEG)" setting when "MODE (MP3, JPEG)" has been set to
  — "IMAGE (JPEG)" and the selected disc only contains MP3 audio tracks.
  — "AUDIO (MP3)" and the selected disc only contains JPEG image files.
- If there are no MP3 audio tracks in the disc, "No audio data" appears on the TV screen and the disc cannot be played back.
- If there are no JPEG image files in the disc, "No image data" appears on the TV screen and the disc cannot be played back.
- If you play back a large data size of MP3 audio tracks and JPEG image files at the same time, the sound may skip.

Disc

Specifying the slide show speed

(JPEG image files only)

1 Press ⌷ DISPLAY 26 repeatedly until the Control Menu for JPEG image files appears on the TV screen.

2 Press ▲ or ▼ 30 repeatedly to select ▦ (INTERVAL), then press ENTER 30.

The options for "INTERVAL" appear on the TV screen.

3 Press ▲ or ▼ 30 repeatedly to select the transition interval you want.

The default setting is underlined.

- <u>NORMAL</u>: Sets the duration to about 6 to 9 seconds (Images that are 4,000,000 pixels or more will lengthen the duration).
- FAST: Sets the duration shorter than NORMAL.
- SLOW 1: Sets the duration longer than NORMAL.
- SLOW 2: Sets the duration longer than SLOW 1.

4 Press ENTER 30.

The selected setting takes effect.

Note

Some JPEG image files (especially progressive JPEG image files or JPEG image files with 3,000,000 pixels or more) may take a longer time to display than others, which may make the transitions seem longer than that of the option you selected.

Selecting a transition effect for image files in the slide show

(JPEG image files only)

1 Press ⌷ DISPLAY 26 repeatedly until the Control Menu for JPEG image files appears on the TV screen.

2 Press ▲ or ▼ 30 repeatedly to select ▦ (EFFECT), then press ENTER 30.

The options for "EFFECT" appear on the TV screen.

3 Press ▲ or ▼ 30 repeatedly to select the setting you want.

The default setting is underlined.

- <u>MODE 1</u>: The image sweeps in from top to bottom of the screen.
- MODE 2: The image sweeps in from left to right of the screen.
- MODE 3: The image stretches out from the center of the screen.
- MODE 4: The images randomly cycle through the effects.
- MODE 5: The next image slides over the current image.
- OFF: Turns off this function.

4 Press ENTER 30.

The selected setting takes effect.

Adjusting the delay between the picture and sound

— A/V SYNC

DVD-V **DVD-VR** **VIDEO CD** **DATA CD** **DATA DVD**

When the sound does not synchronize with the pictures on the screen, you can adjust the delay between the picture and sound.
A/V SYNC does not work for MP3 audio tracks and JPEG image files in DATA CD/DVD.

1 Press ⊙ DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 30 repeatedly to select ▮ ▦ (A/V SYNC), then press ENTER 30.
The options for "A/V SYNC" appear on the TV screen.

3 Press ↑ or ↓ 30 repeatedly to select the setting you want.
The default setting is underlined.
- <u>OFF</u>: Does not adjust.
- ON: Adjusts the difference between picture and sound.

4 Press ENTER 30.

Note
Depending on the input stream, this function may not be effective.

Restricting playback of the disc

— CUSTOM PARENTAL CONTROL, PARENTAL CONTROL

DVD-V **VIDEO CD** **C D**

You can set 2 kinds of playback restrictions for the disc you want.

Custom Parental Control
You can set playback restrictions so that the system will not play back inappropriate discs.

Parental Control
You can limit the playback of some DVD VIDEOs according to a predetermined level such as the age of the users. When a limited scene is played back, that scene may be skipped or replaced with different scenes.

The same password is used for both Custom Parental Control and Parental Control.

Preventing playback of specific discs

— CUSTOM PARENTAL CONTROL

You can set the same Custom Parental Control password for up to 40 discs. When you set the 41st-disc, the playback restriction for the first disc is canceled.

1 Insert the disc you want to set the playback restriction.
If the disc is playing, press ■ 17 to stop playback.

2 Press ⊙ DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

Disc

3 Press ↑ or ↓ ③⓪ repeatedly to select ⬛ (PARENTAL CONTROL), then press ENTER ③⓪.

The options for "PARENTAL CONTROL" appear on the TV screen.

4 Press ↑ or ↓ ③⓪ repeatedly to select "ON ⟶," then press ENTER ③⓪.

If you have not entered a password:
The display for registering a new password appears.

```
PARENTAL CONTROL

    Enter a new 4-digit password,
    then press ENTER .
         ▪   ▪   ▪   ▪
```
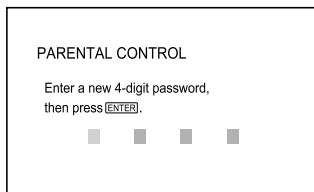
Enter a 4-digit password using the numeric buttons ③③, then press ENTER ③⓪.
The display for confirming the password appears on the TV screen.

When you have already registered a password:
The display for entering the password appears on the TV screen.

5 Enter or re-enter your 4-digit password using the numeric buttons ③③, then press ENTER ③⓪.

"Custom parental control is set." appears on the TV screen and the screen returns to the Control Menu.

If you make a mistake when entering your password

Press ← ③⓪ repeatedly to delete the number you have entered, then re-enter your password again.

To turn off the Custom Parental Control function

1 Follow steps 1 through 3 of "Preventing playback of specific discs" (page 39).

2 Press ↑ or ↓ repeatedly to select "OFF ⟶," then press ENTER ③⓪.

3 Enter your 4-digit password using the numeric buttons ③③, then press ENTER ③⓪.

To play back a disc for which Custom Parental Control is set

1 Insert the disc for which Custom Parental Control is set.
The "CUSTOM PARENTAL CONTROL" display appears.

```
CUSTOM PARENTAL CONTROL

   Custom parental control is already
   set. To play, enter your password
   and press ENTER .
         ▪   ▪   ▪   ▪
```
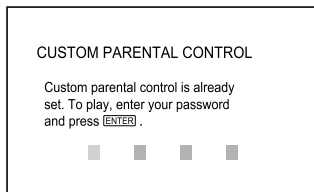
2 Enter your 4-digit password using the numeric buttons ③③, then press ENTER ③⓪.
The system is ready for playback.

Tip
If you forget your password, enter the 6-digit number "199703" using the numeric buttons ③③ when the "CUSTOM PARENTAL CONTROL" display asks you for your password, then press ENTER ③⓪. The display will ask you to enter a new 4-digit password.

Limiting playback for children

— PARENTAL CONTROL

(DVD VIDEO only)
You can limit the playback of some DVD VIDEOs according to a predetermined level such as the age of the users.

1 Press ⬚ DISPLAY ㉖ when playback is stopped.

The Control Menu appears on the TV screen.

2 Press ↑ or ↓ ㉚ repeatedly to select ⬚ (PARENTAL CONTROL), then press ENTER ㉚.

The options for "PARENTAL CONTROL" appear on the TV screen.

3 Press ↑ or ↓ ㉚ repeatedly to select "PLAYER →," then press ENTER ㉚.

If you have not entered a password:
The display for registering a new password appears.

```
PARENTAL CONTROL

Enter a new 4-digit password,
then press ENTER .
    ■    ■    ■    ■
```
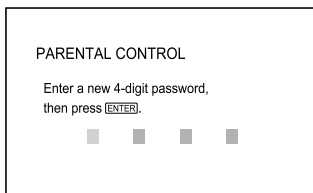
Enter a 4-digit password using the numeric buttons ㉝, then press ENTER ㉚.
The display for confirming the password appears on the TV screen.

When you have already registered a password:
The display for entering the password appears on the TV screen.

4 Enter or re-enter your 4-digit password using the numeric buttons ㉝, then press ENTER ㉚.

The display for setting the playback limitation level appears.

```
PARENTAL CONTROL
LEVEL:                        OFF
  STANDARD:                   USA
```
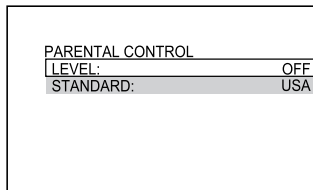
5 Press ↑ or ↓ ㉚ repeatedly to select "STANDARD," then press ENTER ㉚.

The options for "STANDARD" appear on the TV screen.

6 Press ↑ or ↓ ㉚ repeatedly to select a geographic area as the playback limitation level, then press ENTER ㉚.

The area is selected.
When you select "OTHERS →," enter the area code for the geographic area you want according to the "Parental Control area code list" (page 83) by using the numeric buttons ㉝.

7 Press ↑ or ↓ ㉚ repeatedly to select "LEVEL," then press ENTER ㉚.

The options for "LEVEL" appear on the TV screen.

41^{GB}

8 Press ↑ or ↓ 30 repeatedly to select the level you want, then press ENTER 30.

Parental Control setting is completed. The lower the value, the stricter the limitation.
To turn off the Parental Control function, set "LEVEL" to "OFF."

If you make a mistake when entering your password

Press ← 30 repeatedly to delete the number you have entered, then re-enter your password again.

To play back a disc for which Parental Control is set

1 Insert the disc and press ▷ 17 (or DVD ► 15 on the unit).
The display for entering your password appears on the TV screen.

2 Enter your 4-digit password using the numeric buttons 33, then press ENTER 30.
The system starts playback.

Notes

• The Control Menu display will show different items depending on the disc type.
• When you play back DVD VIDEOs which do not have the Parental Control function, playback cannot be limited on this system.
• Depending on the DVD VIDEO, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If Resume Play is canceled, the level returns to the original level.

Tip

If you forget your password, remove the disc and repeat steps 1 to 3 of "Limiting playback for children." When you are asked to enter your password, enter "199703" using the numeric buttons 33, then press ENTER 30. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, reinsert the disc and press ▷ 17. When the display for entering your password appears, enter your new password.

Changing the password

1 Press ⊡ DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

**2** Press ↑ or ↓ 30 repeatedly to select 🔒 (PARENTAL CONTROL), then press ENTER 30.
The options for "PARENTAL CONTROL" appear on the TV screen.

3 Press ↑ or ↓ 30 repeatedly to select "PASSWORD →," then press ENTER 30.
The display for entering the password appears on the TV screen.

4 Enter your 4-digit password using the numeric buttons 33, then press ENTER 30.

5 Enter a new 4-digit password using the numeric buttons ❸❸, then press ENTER ❸⓪.

6 To confirm your password, re-enter it using the numeric buttons ❸❸, then press ENTER ❸⓪.

If you make a mistake when entering your password

Press ← ❸⓪ repeatedly to delete the number you have entered, then re-enter your password again.

Using the DVD setup menu

By using the DVD setup menu, you can make various adjustments to items such as picture and sound.

Note
Playback settings stored in the disc take priority over the DVD setup menu settings. Therefore, some of the DVD setup menu settings may not be performed.

1 Press ⌐ DISPLAY ❷❻ when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ ❸⓪ repeatedly to select   🖼️   (SETUP), then press ENTER ❸⓪.
The options for "SETUP" appear on the TV screen.

3 Press ↑ or ↓ ❸⓪ repeatedly to select "CUSTOM," then press ENTER ❸⓪.
The Setup menu appears on the TV screen.

Disc

4 Press ↑ or ↓ 30 repeatedly
to select the setup item from
the displayed list: "LANGUAGE
SETUP," "SCREEN SETUP" or
"CUSTOM SETUP." Then press
ENTER 30.

The setup item is selected.
Example: SCREEN SETUP

Selected item

```
SCREEN SETUP
TV TYPE:                        4:3 LETTER BOX
SCREEN SAVER:                             ON
BACKGROUND:              JACKET PICTURE
BLACK LEVEL:                              ON
BLACK LEVEL (COMPONENT OUT):            OFF
4:3 OUTPUT:                             FULL
```

Setup items
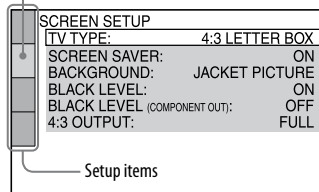
5 Press ↑ or ↓ 30 repeatedly to
select the item you want, then
press ENTER 30.

The options for the selected item
appear on the TV screen.
Example: TV TYPE

```
SCREEN SETUP
TV TYPE:                        4:3 LETTER BOX
SCREEN SAVER:                   4:3 LETTER BOX
BACKGROUND:                     4:3 PAN SCAN
BLACK LEVEL:                             16:9
BLACK LEVEL (COMPONENT OUT):            OFF
4:3 OUTPUT:                             FULL
```

Options
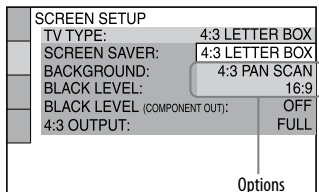
6 Press ↑ or ↓ 30 repeatedly to
select the setting you want,
then press ENTER 30.

The setting is selected and setup is
completed.

```
SCREEN SETUP
TV TYPE:                        4:3 LETTER BOX
SCREEN SAVER:                             ON
BACKGROUND:              JACKET PICTURE
BLACK LEVEL:                              ON
BLACK LEVEL (COMPONENT OUT):            OFF
4:3 OUTPUT:                             FULL
```

Selected setting
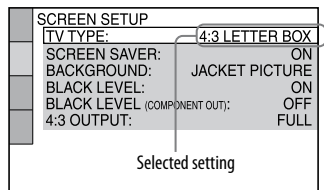
DVD setup menu item list

The default settings are underlined.

Setting the language — LANGUAGE SETUP

Set various languages for the on-screen
display or sound track.

```
LANGUAGE SETUP
OSD:                    ENGLISH
MENU:                   ENGLISH
AUDIO:                  ORIGINAL
SUBTITLE:          AUDIO FOLLOW
```
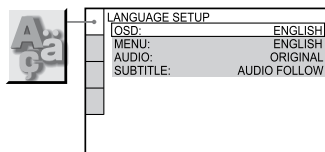
OSD
(On-Screen Display) Switches the
language of the on-screen display.

MENU*
(DVD VIDEO only) Select the language
for the DVD menu.

AUDIO*
(DVD VIDEO only) Switches the
language of the sound track.
When you select "ORIGINAL," the
language given priority in the disc is
selected.

SUBTITLE*

(DVD VIDEO only) Switches the language of the subtitle .
When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language you selected for the sound track.

---

* When you select a language in "MENU," "SUBTITLE," or "AUDIO" that is not recorded on the DVD VIDEO, one of the recorded language is automatically selected. However, depending on the disc, the language may not be selected automatically.

If you select "OTHERS →" in "MENU," "SUBTITLE," and "AUDIO," enter a language code from the "Language code list" (page 82) using the numeric buttons �33.

Setting the TV screen — SCREEN SETUP

Choose the settings according to the TV you connected.

```
SCREEN SETUP
TV TYPE:                        4:3 LETTER BOX
SCREEN SAVER:                             ON
BACKGROUND:            JACKET PICTURE
BLACK LEVEL:                             ON
BLACK LEVEL (COMPONENT OUT):             OFF
4:3 OUTPUT:                             FULL
```

TV TYPE¹⁾

(DVD VIDEO only)
16:9: Select this when you connect a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX: Select this when you connect a 4:3 screen TV. This setting displays a wide picture with bands on the upper and lower portions of the screen.
4:3 PAN SCAN²⁾: Select this when you connect a 4:3 screen TV. This setting displays the wide picture on the entire screen and cuts off the portions that do not fit.

SCREEN SAVER

The screen saver will help prevent your display device from becoming damaged (ghosting). Press ▷ 17 (or DVD ► 15 on the unit) to turn off the screen saver.
ON: The screen saver image appears when playback is stopped or paused for 15 minutes or when you play back an AUDIO CD or MP3 audio tracks for more than 15 minutes.
OFF: The screen saver does not appear.

BACKGROUND

Selects the background color or picture to be displayed on the TV screen. The background color or picture is displayed when playback is stopped or while playing an AUDIO CD and MP3 audio tracks.
JACKET PICTURE: The jacket picture (still picture) appears in the background, but only when the jacket picture is already recorded on the disc (DVD VIDEO, CD-EXTRA, etc.). If the disc does not contain a jacket picture, the "GRAPHICS" picture appears.
GRAPHICS: A preset picture stored in the system appears in the background.
BLUE: The background color is blue.
BLACK: The background color is black.

BLACK LEVEL

Select the black level (setup level) for the video signals output from the video jacks other than COMPONENT VIDEO OUT jacks.
ON: Standard level
OFF: Lower the standard black level. Use this when the picture becomes too white.

45^GB

BLACK LEVEL (COMPONENT OUT)
Select the black level (setup level) for the video signals output from the COMPONENT VIDEO OUT jacks. You cannot select "BLACK LEVEL (COMPONENT OUT)" when the system outputs progressive signal.
OFF: Standard level
ON: Raise the standard black level. Use this when the picture becomes too black.

4:3 OUTPUT[3)]
Change this setting to watch 4:3 aspect ratio progressive signals. If you can change the aspect ratio on your progressive format (525p/625p) compatible TV, change the setting on your TV.
FULL: Select this when you can change the aspect ratio on your TV.
NORMAL: Select this when you cannot change the aspect ratio on your TV. Shows a 16:9 aspect ratio signal with black bands on left and right sides of the image.
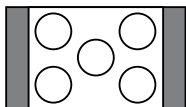
16:9 aspect ratio TV

[1)] The default setting varies depending on the country or region.

16:9

4:3 LETTER BOX
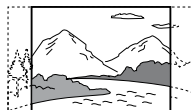
4:3 PAN SCAN

[2)] Depending on the DVD VIDEO, "4:3 LETTER BOX" may be selected automatically instead of "4:3 PAN SCAN" or vice versa.

[3)] This setting is effective only when
— you set "TV TYPE" in "SCREEN SETUP" to "16:9."
— "P AUTO" or "P VIDEO" is selected (page 18).

Setting playback options — CUSTOM SETUP

Set up playback related and other settings.

CUSTOM SETUP
PAUSE MODE: AUTO
TRACK SELECTION: OFF
MULTI-DISC RESUME: ON
AUDIO DRC: OFF
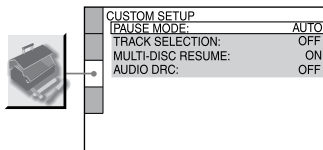
PAUSE MODE
(DVD VIDEO and DVD-R/-RW in VR mode only)
AUTO: The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
FRAME: The picture, including subjects that do not move dynamically, is output in high resolution.

TRACK SELECTION

(DVD VIDEO only) Gives priority to the sound track which contains the highest number of channels when you play back a DVD VIDEO on which multiple audio (PCM, DTS, MPEG audio, or Dolby Digital) formats[1] are recorded.
OFF: No priority given.
AUTO[2]: Priority given.

MULTI-DISC RESUME

(DVD VIDEO and VIDEO CD only)
ON: Stores the resume playback point in the memory for up to 40 discs.
OFF: Does not store the resume playback point in the memory. Playback starts at the resume playback point only for the current disc in the system.

AUDIO DRC[3] (Dynamic Range Compression)

(DVD VIDEO and DVD-R/-RW in VR mode only)
OFF: No compression of dynamic range.
STANDARD: Reproduces the sound track with the kind of dynamic range that the recording engineer intended. Useful for watching movies at low volume late at night.
MAX: Narrows the dynamic range fully.

[1] If each audio sound track has the same number of channels, the system selects the audio sound tracks in the order from PCM, DTS, Dolby Digital, to MPEG.

[2] When you set "TRACK SELECTION" to "AUTO," the language may change. The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP". However, depending on the disc, this function may not be performed.

[3] AUDIO DRC can only be performed with Dolby Digital sources.

Tuner

Listening to the radio

You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to FM or AM

1 Press FUNCTION +/− 15 repeatedly to select "TUNER FM" or "TUNER AM" (or press TUNER/BAND 15 on the unit repeatedly to select "FM" or "AM").

2 Press and hold TUNING +/− 8 until the frequency indication changes and then release.

Scanning stops automatically when a station is tuned in and "TUNED" lights up in the display. When a FM stereo program is tuned in, "ST" lights up in the display.

```
                FM        ST    TUNED

          87.5 MHz
```

If "TUNED" does not appear and the scanning does not stop, press TUNING +/− 8 repeatedly to tune in the station you want.

3 Adjust the volume.
Press VOLUME +/− 18.

To stop automatic scanning

Press ■ 17.

To change the AM tuning interval

The factory setting for AM tuning interval is 9 kHz (or 10 kHz for same areas).
Use buttons on the unit.

1 Press TUNER/BAND 15 on the unit repeatedly to select "AM".

2 Press I/(¹) 1 to turn off the system.

3 Press DISPLAY 11 to display the clock.

4 While the clock is displayed, hold down TUNER/BAND 15 and then press I/(¹) 1 to turn on the system.
"AM 9k Step" or "AM 10k Step" appears in the display.
When you change the interval, all the AM preset stations are erased.

Tips
- To improve broadcast reception, adjust the supplied antennas, or connect an external antenna.
- When an FM stereo program has static noise, press FM MODE 16 repeatedly until "MONO" lights up in the display. There will be no stereo effect, but the reception will improve.

Listening to satellite radio

You can operate and listen to XM or SIRIUS satellite radio by connecting an optional antenna or tuner. Before using the system, connect the XM Mini-Tuner and Home Dock or the SiriusConnect Home tuner to the system. See "Hooking up the system" (page 14) for details about connection.

1 Select "XM" or "SIRIUS."
Press XM or SIRIUS 34 (or TUNER/BAND 15 repeatedly).

2 Select the All Channel mode.

Press CATEGORY MODE 35 repeatedly until "CAT" disappear.

3 Tune in the desired channel.

Press TUNING +/− 8 repeatedly.

4 Adjust the volume.

Press VOLUME +/− 18.

To select a channel by Category mode

1 Press XM or SIRIUS 34 (or TUNER/ BAND 15 repeatedly).

2 Press CATEGORY MODE 35 repeatedly until "CAT" appears.

3 Press CATEGORY +/− 35 repeatedly.

4 Press TUNING +/− 8 repeatedly.

To select a channel using the numeric buttons

Enter the 3 digits of the desired channel using the numeric buttons 33, then press ENTER 30.

To check your XM Radio ID or SIRIUS ID number

Press the numeric button 0 33, then press ENTER 30 to select the channel 0.

To check XM or SIRIUS radio information

Press DISPLAY 11 repeatedly when the system is on. You can view XM or SIRIUS radio information, such as the channel name, song title and artist name.

Notes
- If you select a channel using the numeric buttons 33 in Category mode, the tuning mode changes to automatically All Channel mode.
- You cannot select a SIRIUS channel using TUNING +/− 8 if the Parental Lock is set for the channel.

Listening to preset radio station

1 Tune in the desired station

(see "Listening to FM or AM" or "Listening to satellite radio" (page 48)).

2 Press DVD/TUNER MENU 24.

"Memory?" flashes in the display.

3 Press ENTER 30.

A preset number flashes in the display.
The stations are stored from preset number 1.

```
                    FM        ST   TUNED

   Memory        1
```
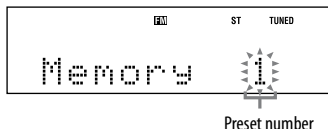
Preset number

4 Press PRESET +/− 8 repeatedly

to select the preset number you want.

5 Press ENTER 30.

"Complete!" appears in the display.
The station is stored.

6 Repeat steps 1 to 6 to store other stations.

You can preset up to 20 FM, 10 AM, 20 XM and 20 SIRIUS stations.
The preset stations are retained for half a day even if you unplug the power cord or if a power failure occurs.

Tuner

49^{GB}

7 To listen to a preset station, press PRESET +/— 8 repeatedly to select the preset station you want.

You can also press the numeric buttons 33, then press ENTER 30 to select a preset station (FM/AM station only).

To cancel presetting

Press DVD/TUNER MENU 24.

Notes on presetting XM or SIRIUS stations

- You cannot preset XM or SIRIUS stations except when you receive the station.
- You cannot operate CATEGORY +/— 35 in preset tuning mode.
- If you select a channel using the numeric buttons 33 in preset tuning mode, the tuning mode changes automatically to All Channel mode.

Restricting access to specific channels (SIRIUS only)

— Parental Lock
You can restrict access to certain channels using your own password. The password is set to "0000" as the default. Change the password before you use this function for the first time (see "To change the password").

1 Select "SIRIUS."
Press SIRIUS 34 (or TUNER/BAND 15 on the unit repeatedly).

2 Tune in the desired channel (see "Listening to satellite radio" (page 48).

3 Press DVD/TUNER MENU 24.

4 Press ▲ or ▼ 30 repeatedly until "Lock?" appears, then press ENTER 30.
"Enter Code" appears.

5 Enter your 4-digit password using the numeric buttons 33.
"Complete!" appears and the Parental Lock is set.

To delete the numbers you have entered

Press CLEAR 32 repeatedly.

To change the password

1 Press SIRIUS 34 (or TUNER/BAND 15 on the unit repeatedly) to select "SIRIUS."

2 Press DVD/TUNER MENU 24.

3 Press ▲ or ▼ 30 repeatedly until "Edit Code?" appears, then press ENTER 30.
"Old Code" appears.

4 Enter your current 4-digit password using the numeric buttons 33.
"New Code" appears.

5 Enter a new 4-digit password using the numeric buttons 33.

6 To confirm your new password, re-enter it using the numeric buttons 33.
"Complete!" appears and the new password is set.

To listen to the locked channels

1 Press SIRIUS 34 (or TUNER/BAND
15 on the unit repeatedly) to select
"SIRIUS."

2 Select a locked channel you want to
listen to using the numeric buttons
33.
"Enter Code" appears.

3 Enter your 4-digit password using
the numeric buttons 33.
The channel is tuned in.

To remove the Parental Lock

1 When the locked channel is tuned
in, press DVD/TUNER MENU 24, and
then press ♠ or ♦ 30 repeatedly until
"Unlock?" appears.

2 Press ENTER 30.
"Complete!" appears and the channel
is unlocked.

Notes
- When you select a channel using
  TUNING +/− 8 in All Channel mode or
  Category mode, locked channels are skipped.
- The display will return to the original
  indication if you press ■ 17 or if no entry is
  made for a set period of time after you have
  been prompted to enter the password.
- When the system is reset to the factory
  settings, the Parental Lock password returns
  to the default ("0000"), but Parental Lock
  settings are not removed.
- You cannot preset locked channels.
- If you set the Parental Lock for a preset
  channel, the preset information for that
  channel returns to the default.
- You cannot set the Parental Lock for channels
  0 or 184.

Bluetooth Device

Using the Bluetooth function

This system supports Bluetooth A2DP and AVRCP profiles. For details on Bluetooth wireless technology, see "Bluetooth wireless technology" (page 84).

Check the websites below for the latest information about compatible devices.
For customers in the U.S.A.:
<http://www.sony.com/shelfsupport>
For customers in Canada:
English <http://www.sony.ca/ElectronicsSupport/>
French <http://fr.sony.ca/ElectronicsSupport/>
For customers in Europe:
<http://sonydigital-link.com/dna>
For customers in Latin America:
<http://www.sony-latin.com/pa/info>
For customers in Asia and Oceania:
<http://www.css.ap.sony.com/>

Listening to music of a Bluetooth mobile phone or Bluetooth device

You can listen to music from your Bluetooth mobile phone or Bluetooth device over a wireless connection.
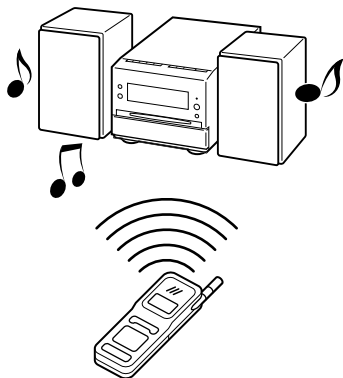
Follow the procedure below to listen to music from Bluetooth devices with this system.

Pairing this system with a Bluetooth device

↓

Connecting to registered devices

↓

Playing music of a Bluetooth device

For details about the operations of the Bluetooth device, also refer to the operation manual supplied with your Bluetooth device.

Pairing this system with a Bluetooth device

Pairing is an operation where Bluetooth devices register with each other beforehand. Use the procedure below to pair the system with your Bluetooth device. Once a pairing operation is performed, it does not need to be performed again. If pairing is already completed, proceed to "Playing music of a Bluetooth device" (page 54).

1 Place the Bluetooth device to be connected to this system within 1 meter of the system.

2 Select the Bluetooth function.
Press FUNCTION +/– 15 repeatedly to select "BLUETOOTH" (or press BLUETOOTH ▶ 15 on the unit).

3 Operate the Bluetooth device and perform the pairing operation.
For details about the operations of the Bluetooth device, refer to the operation manual supplied with your Bluetooth device.

When searching for this system with the Bluetooth device, a list of the devices found may appear in the Bluetooth device display depending on the type of Bluetooth device. This system appears as "CMT-DH7BT."

When establishing a connection with this system, select the audio profile (A2DP, AVRCP) at the Bluetooth device. If the Bluetooth device does not support the AVRCP profile, you cannot perform playback or other operations with the system (page 54).

4 Enter the passcode.
Passcode entry may be required depending on the type of Bluetooth device.

When "PIN?" and a countdown appear, enter the passcode at the system as follows:

PIN? 28 012

Press the numeric buttons 33 (or 7 and ⏮/⏭ 8) to enter the same passcode that was entered at the Bluetooth device, and then press ENTER 30 (or BLUETOOTH OPR 4 on the unit). Once pairing is completed and the connection is established, the system display changes as follows:
"Connect" → Name of the Bluetooth device

To cancel passcode entry partway
Press ■ 17.

Notes
- "Passcode" may be called "Passkey," "PIN code," "PIN number" or "Password," etc. depending on the device.
- This system only supports numerical passcodes up to 4 digits.
- The pairing standby status of the system is cancelled after about 30 seconds. If pairing is not successful, redo the procedure from step 1.
- While connected to a Bluetooth device, this system cannot be detected and a connection cannot be established from another Bluetooth device.

Bluetooth Device

To erase all the pairing registration information

1 Press FUNCTION +/− 15 repeatedly to select "BLUETOOTH" (or press BLUETOOTH ► 15 on the unit).

When the system is connected with a Bluetooth device (when the Bluetooth device name or other information appears in the system display), press and hold BLUETOOTH OPR 4 on the unit for about 2 seconds to put the system in Bluetooth standby mode.

2 Press CLEAR 32.
"Delete?" appears.

3 Press ENTER 30.
"Complete!" appears and all the pairing information is erased.

Note
In order to connect with a Bluetooth device after performing this operation, you must enter the passcode again.

Playing music of a Bluetooth device

You can operate a Bluetooth device by connecting the system and a Bluetooth device using AVRCP. If the system is not connected with a Bluetooth device using AVRCP, "Not In Use" appears when you operate the system.

1 Select the Bluetooth function.
Press FUNCTION +/− 15 repeatedly to select "BLUETOOTH" (or press BLUETOOTH ► 15 on the unit).

2 Establish a connection from the Bluetooth device.
For details about the operations of the Bluetooth device, refer to the operation manual supplied with your Bluetooth device.

Once the connection is established, the system display changes as follows: "Connect" → Name of the Bluetooth device

3 Start playback.
Press ▷ 17 (or BLUETOOTH ► 15 on the unit).
Depending on the Bluetooth device, you may need to start up the AV software of the Bluetooth device beforehand.

4 Adjust the volume.
Press VOLUME +/− 18.

To check the address of a connected Bluetooth device

Press DISPLAY 11 while the Bluetooth device name appears in the system display.
The Bluetooth device address appears for 8 seconds.

To cancel the connection with a Bluetooth device

Press and hold BLUETOOTH OPR $\boxed{4}$ on the unit for about 2 seconds until "Disconnect" appears, or until the information on the display (device name, etc.) disappears.

Other operation

To	Press
Pause playback	$\blacksquare\blacksquare$ $\boxed{17}$.
Stop playback	$\blacksquare$ $\boxed{17}$.
Select a file	$\blacktriangleleft\blacktriangleleft$/$\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ $\boxed{8}$.
Find a point in a file	Hold down $\blacktriangleleft\blacktriangleleft$/$\blacktriangleright\blacktriangleright$ $\boxed{8}$.

Note
These operations may not be available for certain Bluetooth devices. In addition, the actual operations may differ depending on the connected Bluetooth device.

Notes on connections with Bluetooth devices

- If you cannot connect with a paired Bluetooth device, perform the pairing operation between the system and the Bluetooth device again.
- Depending on the type of Bluetooth device, you can adjust the volume using the controls of the Bluetooth device.
- When BLUETOOTH $\blacktriangleright$ $\boxed{15}$ on the unit is pressed while connected to Bluetooth headphones, it may take some time until a connection is made to the system from another Bluetooth device.

Listening to music on this system using Bluetooth headphones

You can listen to music played on this system using your Bluetooth headphones over a wireless connection.
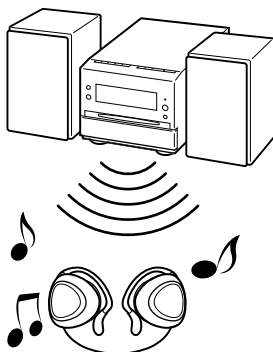
Follow the procedure below to listen to music on this system with Bluetooth headphones.

Pairing this system with Bluetooth headphones

↓

Connecting to registered headphones

↓

Playing music on this system

For details about the operations of the Bluetooth headphones, also refer to the operation manual supplied with your Bluetooth headphones.

Pairing this system with Bluetooth headphones

Pairing is an operation where Bluetooth devices register with each other beforehand. Use the procedure below to pair the system with your Bluetooth headphones. Once a pairing operation is performed, it does not need to be performed again. If pairing is already completed, proceed to "Playing music on this system" (page 57).

1 Select a function other than the Bluetooth function.

Press FUNCTION +/− 15 repeatedly.

2 Place the Bluetooth headphones to be connected to this system within 1 meter of the system.

3 Put the Bluetooth headphones in pairing mode.

For details about the operations of the Bluetooth headphones, refer to the operation manual supplied with your Bluetooth headphones.

4 Press and hold BLUETOOTH OPR 4 on the unit for about 7 seconds until the BLUETOOTH indicator 3 flashes.

Sound output from the speakers is stopped.

5 Enter the passcode.

Follow the same procedure as in step 4 of "Pairing this system with a Bluetooth device" (page 53).

Once pairing is completed and the connection is established, the system display changes as follows:
"Connect" → Name of the Bluetooth device

To cancel passcode entry partway

Press ■ 17.

Notes
- "Passcode" may be called "Passkey," "PIN code," "PIN number" or "Password," etc. depending on the device.
- This system only supports numerical passcodes up to 4 digits.
- The pairing standby status of the system is cancelled after about 30 seconds. If pairing is not successful, redo the procedure from step 1.
- While connected to a Bluetooth device, this system cannot be detected and a connection cannot be established from another Bluetooth device.
- Pairing may not be possible if other Bluetooth devices are present around the system. In this case, turn off the other Bluetooth devices.

To erase all the pairing registration information

1 Press FUNCTION +/− 15 repeatedly to select "BLUETOOTH" (or press BLUETOOTH ▶ 15 on the unit).

When the system is connected with a Bluetooth device (when the Bluetooth device name or other information appears in the system display), press and hold BLUETOOTH OPR 4 on the unit for about 2 seconds to put the system in Bluetooth standby mode.

2 Press CLEAR 32.

"Delete?" appears.

3 Press ENTER 30.

"Complete!" appears and all the pairing information is erased.

Note
To connect with Bluetooth headphones after performing this operation, you must enter the passcode again.

Playing music on this system

You can operate this system from Bluetooth headphones by connecting the system and Bluetooth headphones using AVRCP.

1 Select a function other than the Bluetooth function.

Press FUNCTION +/− 15 repeatedly.

2 Establish a connection with the Bluetooth headphones.

Press and hold BLUETOOTH OPR 4 on the unit for about 2 seconds until the BLUETOOTH indicator 3 lights up, then release the button.
If more than one Bluetooth device that has been connected in the past is present around the system, the system attempts to connect with up to 3 most recently connected devices. (Connection is attempted with up to 3 devices in order from the most recently connected device, and the attempts end when a connection is established.)
Once the connection is established, the system display changes as follows: "Connect" → Name of the Bluetooth device

3 Start playback of the music for the function selected in step 1.

Depending on the type of Bluetooth headphones, you can operate this system (playback, volume control, etc.) using the headphone's controls. For details about the operations of the Bluetooth headphones, refer to the operation manual supplied with your Bluetooth headphones.

4 Adjust the volume.

Press VOLUME +/− 18.

To cancel the connection with Bluetooth headphones

Press and hold BLUETOOTH OPR 4 on the unit for about 2 seconds until the BLUETOOTH indicator 3 turns off.

Notes
- If you cannot connect with paired Bluetooth headphones, perform the pairing operation between the system and the Bluetooth headphones again.
- When the system is changed to a function other than the Bluetooth function and BLUETOOTH OPR 4 on the unit is pressed while connected to a Bluetooth device, it may take some time until a connection is made with the Bluetooth headphones.
- This system stores separate volume settings for when listening through the speakers or PHONES jack 10 on the unit, or when listening through Bluetooth headphones.

Bluetooth Device

57^{GB}

Sound Adjustment

Adjusting the sound

Generating a more dynamic sound (Dynamic Sound Generator X-tra)

You can reinforce the bass and create a more powerful sound.
The DSGX setting is ideal for music sources.

Press DSGX 13 on the unit repeatedly.
Each time you press the button, the display changes as follows:
DSGX ON ←→ DSGX OFF

Tip
The default setting is "DSGX ON."

Setting the sound effect

1 Press EQ 25 repeatedly to select "BASS" or "TREBLE."

2 Press PRESET +/− 8 repeatedly to adjust the level.

Other Operations

Using the timer

Falling asleep to music

— Sleep Timer

You can set the system to turn off after a
certain time, so that you can fall asleep
to music.

Press SLEEP 37 repeatedly.
Each time you press the button, the
minute display changes cyclically as
follows:
90min → 80min → 70min → … →
10min → OFF

Other operations

To	Do this
Check the remaining time	Press SLEEP 37 once.
Change the time to turn off	Press SLEEP 37 repeatedly to select the time you want.
Cancel the Sleep Timer	Press SLEEP 37 repeatedly until "SLEEP OFF" appears in the display.

Waking up to music

— Play Timer

You can wake up to music at a preset
time. Make sure you have set the clock
(see "Setting the clock" (page 19)).

1 Prepare the sound source.
  - Disc: Insert a disc.
  - Radio: Tune in the preset station you want (see "Listening to the radio" (page 48)).

2 Press VOLUME +/− 18 to adjust the volume.

3 Press TIMER MENU 38.

4 Press ♠ or ♦ 30 repeatedly to select "PLAY SET?," then press ENTER 30.
   "ON" appears and the hour indication flashes in the display.

5 Set the time to start playback.
   Press ♠ or ♦ 30 repeatedly to set the hour, then press ENTER 30.
   The minute indication flashes in the display. Use the procedure above to set the minute. "OFF" appears and the hour indication flashes in the display.

6 Set the time to stop playback using the same procedure as step 5.

7 Select the sound source.
   Press ♠ or ♦ 30 repeatedly until the music source you want appears in the display, then press ENTER 30. This display will show the timer settings.

8 Press I/⏻ 1 to turn off the system.

Sound Adjustment/Other Operations

Other operations

To	Do this
Check the setting	**1** Press TIMER MENU 38. "TIMER SEL?" flashes in the display. **2** Press ENTER 30. **3** Press ✦ or ✦ 30 repeatedly to select "PLAY SELECT?," then press ENTER 30.
Change the setting	Start from step 1.
Cancel the Play Timer	**1** Press TIMER MENU 38. "TIMER SEL?" flashes in the display. **2** Press ENTER 30. **3** Press ✦ or ✦ 30 repeatedly to select "TIMER OFF?," then press ENTER 30.

Notes
- The Play Timer will not be activated if the system is turned on or if "STANDBY" flashes in the display.
- The system turns on 30 seconds before the preset time.
- Before the system is turned off, if a connection is made with the Bluetooth headphones, sounds played by the Play Timer may be output to the Bluetooth headphones.

Changing the display

Checking the clock

Press DISPLAY 11 when the system is turned off. The clock is displayed for 8 seconds.

Adjusting the brightness of the display

Press DIMMER 19 repeatedly while the system is on.

Each time you press the button, the display changes cyclically as follows:
DIMMER OFF → DIMMER 1 → DIMMER 2*

* DIMMER 2 is the darkest.

Viewing information about the disc

Viewing information about the disc in the front panel display

Press DISPLAY [11].
Each time you press DISPLAY [11], the display changes from ① → ② → ① → …
① Disc information
② Clock display (for 8 seconds)

Checking the elapsed playing time, remaining time and titles

Press TIME/TEXT [36] during playback. Each time you press TIME/TEXT [36], the display changes from ① → ② → … → ① → …

When playing a DVD VIDEO or DVD-R/-RW in VR mode:

- When the menu or the title without a chapter is played back
  ① Elapsed playing time of the menu or the current title
  ② Title of the disc[1]
- When a chapter other than above condition is played back
  ① Elapsed playing time of the current title
  ② Remaining time of the current title
  ③ Elapsed playing time of the current chapter
  ④ Remaining time of the current chapter
  ⑤ Title of the disc[1][2]

When playing an AUDIO CD or VIDEO CD without PBC function:

① Elapsed playing time of the current track
② Remaining time of the current track
③ Elapsed playing time of the current disc[3]
④ Remaining time of the current disc[3]
⑤ Title of the disc[1][4]

When playing a VIDEO CD/Super VCD:

① Elapsed playing time of the current scene/track
② Title of the disc[1][4]

When playing MP3 audio tracks on a DATA CD/DVD:

① Elapsed playing time of the current track
② Title of the track

Checking the total playing time and titles

Press TIME/TEXT [36] repeatedly when playback is stopped.
Each time you press TIME/TEXT [36], the display changes from ① → ② → ① → …

DVD VIDEO or DVD-R/-RW in VR mode:

① Total number of titles on the disc
② Title of the disc[1]

VIDEO CD without PBC playback or AUDIO CD:

① Total number of the tracks on the disc and the total playing time of the disc
② Title of the disc[1]

VIDEO CD with PBC playback:

① Total number of scenes on the disc
② Title of the disc[1]

Other Operations

61^{GB}

[1] "NO TEXT" appears in the display if the DVD VIDEO is not a DVD-TEXT disc or the VIDEO CD does not have text information.

[2] The current chapter number and the current title number are displayed for 2 seconds before the display returns to elapsed playing time when you press TIME/TEXT [36] during display of title of the disc.

[3] When Program Play or Shuffle Play is turned on, the elapsed playing time and the remaining time of the disc would be skipped.

[4] The current track number and the current index number (for a disc without PBC) or the current scene number (for a disc with PBC) are displayed for 2 seconds before the display returns to elapsed playing time when you press TIME/TEXT [36] during display of the title of disc.
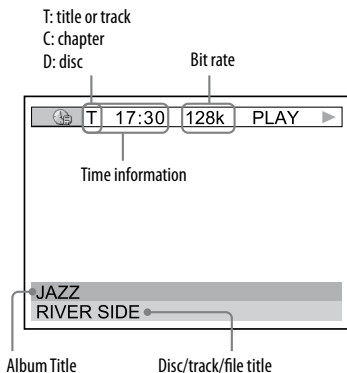
Notes

- If you play back a disc containing JPEG image files only, "JPEG" or "No Audio" appears in the display.
- You cannot use TIME/TEXT [36] to change the display of disc information when:
  − a JPEG image file is played back.
  − playback is stopped for DATA CD/DVD with MP3 audio tracks and/or JPEG image files.
- If the MP3 audio track title contains characters which cannot be displayed, these characters will be displayed as "*."

Viewing information about the disc in the on-screen display

Press TIME/TEXT [36].
Each time you press TIME/TEXT [36] while playing the disc, the display changes from ① → ② → … → ① → …
The time display that you can view on the TV screen depends on the disc you are playing.

T: title or track
C: chapter
D: disc   Bit rate

[(icon) |T| 17:30 | 128k | PLAY ▶]

Time information

JAZZ
RIVER SIDE ●

Album Title   Disc/track/file title

When playing a DVD VIDEO or DVD-R/-RW in VR mode:
① Elapsed playing time of the current title
② Remaining time of the current title
③ Elapsed playing time of the current chapter
④ Remaining time of the current chapter
⑤ Title of the disc

When playing a VIDEO CD/Super VCD:
① Elapsed playing time of the current scene/track
② Title of the disc

When playing an AUDIO CD or VIDEO CD without PBC function:

① Elapsed playing time of the current track

② Remaining time of the current track

③ Elapsed playing time of the current disc

④ Remaining time of the current disc

⑤ Title of the disc

When playing a DATA CD/DVD:

Elapsed playing time of the current track/file

Notes

- Only alphabet letters, numbers and some symbols can be displayed.
- Depending on the disc, the system can only display a limited number of characters.
- For MP3 audio tracks with format other than ISO 9660 Level 1 and Level 2, album title and track title may not be displayed.

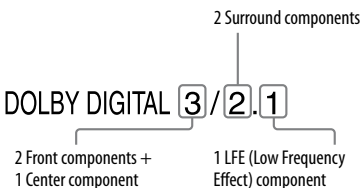### Displaying the audio information of the disc

(DVD VIDEO only)
When you press AUDIO ㉑ repeatedly during playback, the format of the current audio signal is displayed on the TV screen.

When playing a DVD VIDEO:

For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD VIDEO.

Example:
For Dolby Digital 5.1 channel:

2 Surround components

DOLBY DIGITAL ③ / ②.①

2 Front components +
1 Center component

1 LFE (Low Frequency Effect) component

Checking the date information of JPEG image files

You can check the date information during playback when Exif* tag is recorded in the JPEG image files.

Press ⊡ DISPLAY ㉖ repeatedly during playback.

The Control Menu appears.

```
 1 ( 8 )                        ▶
 1 ( 2 0 )            DATA CD JPEG
 01/ 01/ 2007

         Date information
```
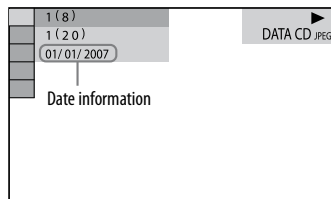
* "Exchangeable Image File Format" is a digital camera image format defined by the Japan Electronics & Information Technology Industries Association (JEITA).

Note

The date information format varies depending on the area.

Other Operations

63^{GB}

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.

Front panel

Rear panel
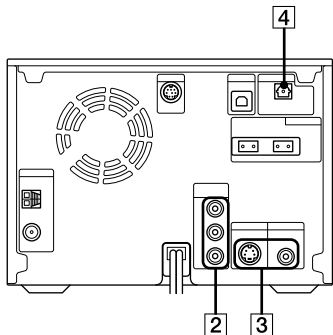
1 AUDIO IN jack

Connect the audio output jack of an optional component (portable audio player, etc.).

2 COMPONENT VIDEO OUT jacks

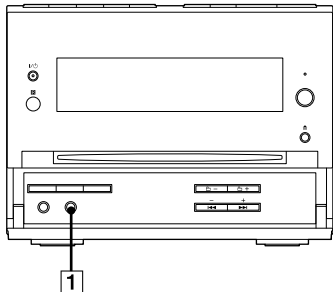Connect the component video input jacks of the TV or projector. If your TV accept progressive format signals, you must use this connection and press PROGRESSIVE 12 on the unit repeatedly to select "P AUTO" or "P VIDEO." You can enjoy higher quality video images.

3 S VIDEO OUT/VIDEO OUT jacks

Connect the S Video/video input jack of the TV. You can enjoy higher quality video images when you select the S VIDEO.

4 DIGITAL OUT jack

Connect the digital optical input jack of an optional digital component (such as amplifier). You can enjoy 5.1 channel sound, if the connected amplifier equipped with Dolby Digital or DTS decoder.

Note

Sound is output only when the system function is set to "DVD".

Enjoying the multi channel sound with the optional amplifier

1 Connect the digital optical cord.
See "Hooking up optional components" (page 64).

2 Connect the speakers to an optional amplifier equipped with a decoder.
For the speakers placement, refer to the operating instructions supplied with the connected amplifier.

3 Start playing a multi channel source, such as a DVD VIDEO.

4 Select the audio format you want.
See "Changing the sound" (page 25).

Other Operations

65^{GB}

Troubleshooting

Should you encounter a problem with your system, do the following:

1 Make sure the power cord and speaker cords are connected correctly and firmly.

2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer.

If the STANDBY indicator flashes

Immediately unplug the power cord, and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage?
- Are you using only the supplied speakers?
- Is anything blocking the ventilation holes on the rear of the system?

After the STANDBY indicator ② stops flashing, reconnect the power cord, and turn on the system, If the issue persists, contact your nearest Sony dealer.

General

The clock or timer setting is canceled.

- The power cord is disconnected or a power failure occurred. Redo "Setting the clock" (page 19). If you have set the timer, redo "Waking up to music" (page 59).

"– –:– –" appears in the display.

- A power failure has occurred. Set the clock (page 19) and timer settings (page 59) again.

There is no sound.

- Press VOLUME + ⑱ repeatedly.
- The headphones are connected to the PHONES jack ⑩.
- Check the speaker connections (page 14).
- The system is in pause mode, in Slow-motion Play or in Lock Search. Press ▷ ⑰ (or DVD ▶ ⑮ on the unit) to start the playback.
- If the BLUETOOTH indicator ③ is lit or flashing when a function other than the Bluetooth function is selected, no sound is heard through the speakers or PHONES jack ⑩. Press and hold BLUETOOTH OPR ④ for about 2 seconds until the BLUETOOTH indicator ③ turns off.

There is severe hum or noise.

- A TV or VCR is placed too close to the unit. Move the unit away from the TV or VCR.
- Move the unit away from the source of noise.
- Connect the unit to a different wall outlet.
- Install a noise filter (commercially available) to the power cord.

The timer does not function.
- Check the timer setting and set the correct time (page 59).
- Cancel the Sleep Timer function (page 59).

The remote does not function.
- Remove the obstacles between the remote and the unit.
- Move the remote closer to the unit.
- Point the remote at the unit's sensor.
- Replace the batteries (R6/size AA).
- Locate the unit away from the fluorescent light.

There is acoustic feedback.
- Reduce the volume.

The color irregularity on a TV screen persists.
- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

THEATRE SYNC function does not work.
- If distance between the TV and this unit is too far, this function may not work. Install the unit near the TV.

Speakers

Sound comes from one channel or unbalanced left and right volume.
- Place the speakers as symmetrically as possible.
- Check that the speakers are connected securely and correctly.
- The source being played back is monaural.

Disc Player

The disc does not eject.
- Consult your nearest Sony dealer.

Playback does not start.
- Check whether a disc is loaded.
- Wipe the disc clean (page 75).
- Reinsert the disc.
- Insert the disc that this system can play back (page 5).
- Insert the disc in the disc slot 6 with the label side facing up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press ▷ 17 (or DVD ▶ 15 on the unit) to start playback.
- The region code on the DVD VIDEO does not match the system.
- Cancel the Custom Parental Control function (page 40).

The sound skips.
- Wipe the disc clean (page 75).
- Reinsert the disc.
- Move the unit to a place without vibration (e.g., on top of a stable stand).
- Move the speakers away from the unit, or place them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Additional Information

67^{GB}

Playback does not start from the first track.
- The system is in Program Play or Shuffle Play mode. Turn off Program Play and Shuffle Play.
- Resume Play has been selected. Press ■ 17 twice. Then, press ▷ 17 to start playback (page 27).
- The title of DVD VIDEO or PBC menu automatically appears on the TV screen.

Playback starts automatically.
- The DVD VIDEO features an auto playback function.

Playback stops automatically.
- Some discs may contain an auto pause signal. While playing such a disc, the playback stops at auto pause signal.

You cannot perform some functions such as Stop, Lock Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.
- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

The DATA CD (MP3 audio track/JPEG image file) cannot be played back.
- The DATA CD is not recorded in a format that conforms to ISO 9660 Level 1, Level 2, or Joliet (expansion format).
- The DATA DVD is not recorded in a format that conforms to UDF (Universal Disk Format).
- The MP3 audio track does not have the extension ".MP3".
- The data is not stored in the desired format.
- The MP3 audio tracks in format other than MPEG 1 Audio Layer 3 cannot be played back.

- The system can playback to a depth of 8 folders only.
- For MP3/JPEG files, check the "MODE (MP3, JPEG)" setting (page 37).
- The disc contains more than 200 albums.
- The album contains more than 600 tracks/files.
- For MP3/JPEG files, the album contains more than 300 tracks/files when the "MODE (MP3, JPEG)" is set to "AUTO."
- The JPEG image file does not have the extension ".JPG" or ".JPEG".
- The JPEG image file is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG mode which is mainly used on the Internet website.
- JPEG image files with a high width to length ratio cannot be played back.

The MP3 audio tracks take longer time to play back than others.
- After the system reads all the tracks on the disc, playback may take more time than usual if:
  – the number of albums or tracks on the disc is very large.
  – the album and track organization structure is very complex.

The disc title, album title, track title and DVD-TEXT characters do not appear properly.
- Use a disc that conforms to the ISO 9660 Level 1, Level 2, or Joliet (expansion).
- The character code that can be displayed by this system are as follows:
  – Upper cases (A to Z)
  – Lower cases (a to z)
  – Numbers (0 to 9)
  – Symbols (< > * +, − / [ ] _)
  Other characters may not be displayed correctly.

The surround effect is difficult to hear when you are playing a Dolby Digital or MPEG audio sound track.

- Check the speaker connections (page 14).
- Depending on the DVD VIDEO, the output signal may not be the entire 5.1 channel. It may be monaural or stereo, even if the sound track is recorded in Dolby Digital or MPEG audio format.

The sound loses stereo effect when you play back an AUDIO CD, VIDEO CD, MP3 audio track or DVD VIDEO.

- Make sure the system is connected properly.

Bluetooth device

Pairing cannot be done.

- Move the Bluetooth device closer to the system.
- Pairing may not be possible if other Bluetooth devices are present around the system. In this case, turn off the other Bluetooth devices.

Connection is not possible.

- The Bluetooth device you attempted to connect does not support the A2DP and AVRCP profiles, and cannot be connected with the system.
- Enable the Bluetooth function of the Bluetooth device.
- The pairing registration information has been erased. Perform the pairing operation again.
- While connected to a Bluetooth device, this system cannot be detected and a connection cannot be established from another Bluetooth device.

The sound skips or fluctuates, or the connection is lost.

- The system and the Bluetooth device are too far apart.
- If there are obstacles between the system and your Bluetooth device, remove or avoid the obstacles.
- If there is equipment that generates electromagnetic radiation, such as a wireless LAN, other Bluetooth device, or a microwave oven nearby, move them away.

The sound of your Bluetooth device cannot be heard on this system.

- Turn up the volume on your Bluetooth device first, and then adjust the volume using VOLUME +/− 18.

Severe hum or noise

- If there are obstacles between the system and your Bluetooth device, remove or avoid the obstacles.
- If there is equipment that generates electromagnetic radiation, such as a wireless LAN, other Bluetooth device, or a microwave oven nearby, move them away.
- Turn down the volume of the connected Bluetooth device.

The sound from the Bluetooth headphones is distorted.

- Turn down the volume of the system using VOLUME − 18. If your headphones have a volume control, also adjust the volume using the headphone's volume control.
- Press DSGX 13 on the unit repeatedly until "DSGX OFF" appears.
- Press EQ 25 repeatedly to select "BASS" or "TREBLE," and then press PRESET − 8 repeatedly to turn down the level.

Additional Information

Continued⟍

69^{GB}

Picture

There is no picture.
- Press FUNCTION +/− 15 repeatedly to select "DVD" (or press DVD ▶ 15 on the unit).
- Check that the system is connected securely.
- The video cord is damaged. Replace it with a new one.
- Make sure you connect the unit to the video input jack of your TV (page 17).
- Make sure you turn on the TV and operate the TV correctly.
- Press PROGRESSIVE 12 on the unit repeatedly to select "INTERLACE" if you connect your TV to the unit's COMPONENT VIDEO OUT jacks and your TV cannot accept progressive signal.
- You have set to progressive format but your TV cannot accept the signal in progressive format. In this case, set to interlace format (the default setting) (page 18).
- Even if your TV is compatible with progressive format (525p/625p) signals, the image may be affected when you set to progressive format. In this case, set to interlace format (the default setting) (page 18).
- Make sure you select the video input on the TV so that you can view the pictures from the system.
- Make sure you connect the unit and your TV using only the supplied video cord.

Picture noise appears.
- Clean the disc.

- If video signal from your system has to go through your VCR to your TV, the copy-protection applied to some DVD VIDEO programs could affect the picture quality. If you still experience problems after checking your connections, connect your unit directly to your TV's S Video input (page 17).
- Keep the speaker cords away from the antennas.
- When you connect your TV to the COMPONENT VIDEO OUT jacks and play back video-based software in progressive signal format, some sections of the image may appear unnatural due to the conversion process.

The aspect ratio of the TV screen cannot be changed even though you can set "TV TYPE" under "SCREEN SETUP" in the Setup Menu when you play back a wide picture.
- The aspect ratio is fixed on your DVD VIDEO.
- If you connect the unit with the S Video cord, connect directly to the TV. Otherwise, you may not change the aspect ratio.
- Depending on the TV, you may not change the aspect ratio.

Messages do not appear on the TV screen in the language you want.
- Select the language you want for the on-screen display in "OSD" under "LANGUAGE SETUP" in the Setup Menu (page 44).

The language for the sound track cannot be changed.
- Multilingual tracks are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the language for the sound track.

The subtitles language cannot be changed.
- Multilingual subtitles are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the subtitles.

The subtitles cannot be turned off.
- The DVD VIDEO prohibits turning off subtitles.

The angles cannot be changed.
- Multi-angles are not recorded on the DVD VIDEO being played back.
- The DVD VIDEO prohibits changing the angles.

Tuner

The radio presetting is canceled.
- The power cord is disconnected or a power failure occurred for longer than half a day. Redo "Listening to preset radio station" (page 49).

There is severe hum or noise. ("TUNED" or "ST" flashes in the display)
- Set the proper band and frequency (page 48).
- Connect the antenna properly (page 14).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend that you connect a commercially available external antenna.
- Keep the antennas, SiriusConnect Home tuner, and AC adaptor away from the speaker cords and the power cord to avoid picking up noise.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords as possible.

- Try turning off the surrounding electrical equipment.

A stereo FM program cannot be received in stereo.
- Press FM MODE 16 repeatedly until "MONO" disappears from the display.

The system cannot receive satellite channels at all.
- Check that the XM Mini-Tuner and Home Dock or the SiriusConnect Home tuner are connected properly.
- The receiving condition is not good. Move to the place where the condition is good.
- Check that you subscribed to the desired satellite radio service (pages 16 and 17).

Optional components

There is no sound.
- Refer to General item "There is no sound." (page 66) and check the condition of the system.
- Connect the component properly (page 64) while checking:
  - if the cords are connected properly.
  - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions supplied with the connected component and start playing.

Additional Information

71^{GB}

If the system still does not operate properly after performing the above measures or other troubles not described above occur, reset the system as follows:

Use buttons on the unit to reset the system to its factory default settings.

1 Unplug the power cord.

2 Plug the power cord back in.

3 Press I/⏻ 1 to turn on the system.

4 Press ■ 17, DISPLAY 11 and I/⏻ 1 at the same time.
"RESET" appears in the display.

The system is reset to the factory settings except for DVD settings. You should set the settings you made, such as the preset stations, clock and timer.

To return the DVD setup to the default settings*, perform reset as follows:

1 Press ▭ DISPLAY 26 when playback is stopped.
The Control Menu appears on the TV screen.

2 Press ↑ or ↓ 30 repeatedly to select ▦ (SETUP), then press ENTER 30.

3 Press ↑ or ↓ 30 repeatedly to select "RESET," then press ENTER 30.

4 Press ↑ or ↓ 30 repeatedly to select "YES," then press ENTER 30.
It takes a few seconds to complete. Do not press I/⏻ 1 when resetting the system.

* Except for Parental Control settings

Self-diagnosis Function

(When letters/numbers appear in the display)
When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g. C 13 50) with a combination of a letter and 4 digits appears on the TV screen and the front panel display. In this case, check the following table.

First 3 characters of the service number	Cause and corrective action
C 13	This disc is dirty. • Clean the disc with a soft cloth (page 75).
C 31	The disc is not inserted correctly. • Restart the system, then re-insert the disc correctly.
E XX (XX is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. • Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When displaying the version number on the TV screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the TV screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.
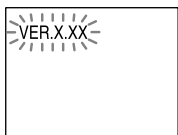
Messages

One of the following messages may appear or flash in the front panel display during operation.

DVD player, Tuner

Cannot Play
- A disc that cannot be played back was inserted.
- A DVD VIDEO with unsupported region code was inserted.

Data Error
- The MP3 audio track and JPEG image file you want to play back is damaged.
- The MP3 audio track does not conform to MPEG 1 Audio Layer 3 format.
- The JPEG image file does not conform to DCF format.
- The MP3 audio track has the extension ".MP3" but it is not in MP3 format.
- The JPEG image file has the extension ".JPG" or ".JPEG" but it is not in JPEG format.

No Disc
There is no disc in the disc slot ⑥.

Not In Use
You have pressed a button whose operation is not allowed or invalid at that time.

OFF TIME NG!
The on time and off time of Play Timer is the same.

Additional Information

PASSWORD
Custom Parental Control or Parental Control is set.

Please Wait
The system is doing initialization process.

Reading
The system is reading information of the disc. Some buttons are not available.

Bluetooth device

Connect
Bluetooth communication was established.

Disconnect
Communication with a Bluetooth device was cut off for some reason, or Bluetooth communication was ended.

Not Connect
Connection was not possible.

No Device
A pairable Bluetooth device was not found, or connection was not possible.

Not In Use
The system is not connected with a Bluetooth device using AVRCP.

PIN?
The system is asking for the passcode. For details, see "Using the Bluetooth function" (page 52).

Please Wait
The system is readying for usage of a Bluetooth device.

XM

ANTENNA
The XM Mini-Tuner and Home Dock are not connected. Check all the connections, and then turn the system on again.

CH – – –
You have entered an invalid channel number. The channel to be tuned-in is void due to the change by the broadcast service, or the receiving condition is not good.

LOADING
The system have not finished receiving the entire audio data or text information. Some buttons are not available.

NO SIGNAL
The receiving condition is not good. Try moving the antenna to another location. Make sure the antenna points south. For details about the antenna location, see the instructions supplied with the XM Mini-Tuner and Home Dock.

OFF AIR
The channel is not broadcasted now.

UPDATING
You have not subscribed for XM or the channel is not authorized. You need to subscribe for XM.

– – – – – –
There is no text information or time information in the channel. This is not an error. The text information may not be displayed depending on the system condition, for example, right after the system has received a channel.

SIRIUS

ANTENNA
The antenna is not connected properly. Check the connection between the SiriusConnect Home tuner and the antenna.

ACQUIRING
The receiving condition is not good. Try moving the antenna to another location. For details about the antenna location, see the instructions supplied with the SiriusConnect Home tuner.

Call 888–539–SIRI
You have not subscribed for the selected channel.

CHECK SIRIUS
The SiriusConnect Home tuner is not connected properly. Check all the connections, and then turn the system on again. Also make sure if the AC adaptor supplied with the SiriusConnect Home tuner is connected to a wall socket.

Invalid
You have entered an invalid channel number. The channel to be tuned-in is void due to the change by the broadcast service, or the receiving condition is not good.

SUB UPDATED
You have not subscribed for SIRIUS or the channel is not authorized. You need to subscribe for SIRIUS.

UPDATING
Channel information or SiriusConnect Home tuner firmware is being updated.

– – – – – –
There is no text information or time information in the channel. This is not an error. The text information may not be displayed depending on the system condition, for example, right after the system has received a channel.

Precautions

Discs that this system CANNOT play
- Discs of non-standard shape (for example, heart, square, star)
- Discs that have adhesive tape, paper, or sticker attached to them
- Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky when touched

Notes on discs
- Before playing, wipe the disc with a cleaning cloth from the center out to the edge.
- Do not clean discs with solvents, such as benzine thinner, or commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.

On operating voltage
Before operating the system, check that the operating voltage of the unit is identical with the voltage of your local power supply.

On safety
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall socket, even if the unit itself has been turned off.
- Completely disconnect the power cord (mains lead) from the wall socket (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself.
- Should any solid object or liquid get into the system, unplug the system, and have it checked by qualified personnel before operating it again.
- The AC power cord can be changed only by a qualified service facility.

Additional Information

On placement

- Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result.
- If the system is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense on the lens inside the DVD player, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for about an hour until the moisture evaporates.

On heat buildup

- Heat buildup on the unit during operation is normal and is not cause for alarm.
- Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may have become hot.
- Do not obstruct the ventilation holes.

On the speaker system

The front speaker is magnetically shielded and can be installed near a TV. Color irregularity may still be observed, however on some types of TV screens. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on. Place the right speaker on the right side of the unit and the left speaker on the left side of the unit. If there is no improvement, move the speakers far away from the TV.

> **IMPORTANT NOTICE**
> **Caution:** If you leave a still video image or on-screen display image displayed on your TV for an extended period of time via this system, you risk permanent damage to your TV screen. Projection TVs are especially susceptible to this.

Cleaning the cabinet

Clean this system with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as thinner, benzine, or alcohol.

Specifications

Main unit (HCD-DH7BT/DVD Receiver)

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL
HARMONIC DISTORTION:
With 6 ohm loads, both channels driven, from 120 – 10,000 Hz; rated 50 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

DIN power output (rated):
    40 W + 40 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference):
    50 W + 50 W (6 ohms at 1 kHz, 10% THD)
Inputs:
AUDIO IN (stereo mini jack):
    Voltage 620 mV, impedance
    47 kilohms
Outputs:
DIGITAL OUT (square optical connector jack):
    Wavelength 660 nm
VIDEO OUT (phono jack):
    Max. output level 1 Vp-p, unbalanced, Sync. negative load impedance 75 ohms
COMPONENT VIDEO OUT:
    Y: 1 Vp-p, 75 ohms
    Pʙ/Cʙ: 0.7 Vp-p, 75 ohms
    Pʀ/Cʀ: 0.7 Vp-p, 75 ohms
S VIDEO OUT (4-pin/mini-DIN jack):
    Y: 1 Vp-p, unbalanced, Sync. negative
    C: 0.286 Vp-p, load impedance 75 ohms
PHONES (stereo mini jack):
    accepts headphones of 8 ohms or more

Bluetooth section

Communication system:
    Bluetooth Standard version 2.0
Output:
    Bluetooth Standard Power Class 2
Maximum communication range:
    Line of sight approx. 10 m[1]
Frequency band:
    2.4 GHz band (2.4000 GHz – 2.4835 GHz)
Modulation method:
    FHSS
Compatible Bluetooth profiles[2]:
    A2DP (Advanced Audio Distribution Profile)
    AVRCP (Audio Video Remote Control Profile)
Supported codecs:
    Receive: SBC (Sub Band Codec), MP3
    Transmit: SBC (Sub Band Codec)
    [1] The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.
    [2] Bluetooth standard profiles indicate the purpose of Bluetooth communication between devices.

Disc player section

System:
    Compact disc and digital audio and video system
Laser:
Laser Diode Properties:
    Emission duration: continuous
    Laser Output*: Less than 1000 μW
    * This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Semiconductor laser:
    (DVD: λ=650 nm, CD: λ=790 nm)
Frequency response:
    DVD (PCM 48 kHz): 2 Hz — 22 kHz (±1dB)
    CD: 2 Hz — 20 kHz (±0.5 dB)
Video color system format:
    NTSC

Tuner section

FM stereo, FM/AM superheterodyne tuner
FM tuner section
Tuning range:
    87.5 — 108.0 MHz (100 kHz step)
Antenna:
    FM lead antenna
Antenna terminals:
    75 ohms unbalanced
Intermediate frequency:
    10.7 MHz
AM tuner section
Tuning range:
    530 — 1,710 kHz (with the interval set at 10 kHz)
    531 — 1,710 kHz (with the interval set at 9 kHz)
Antenna:
    AM loop antenna
Antenna terminals:
    External antenna terminal
Intermediate frequency:
    450 kHz

Speaker (SS-CDH3)

Speaker system:
    2-way, bass-reflex type, magnetically shielded
Speaker units:
    Woofer: 12 cm, cone type
    Tweeter: 4 cm, cone type
Nominal impedance:
    6 ohms
Dimensions (w/h/d):
    Approx. 140 × 250 × 211 mm
Mass:
    Approx. 2.2 kg net per speaker

Additional Information

77GB

General

Power requirements:
    120 V AC, 60 Hz
Power consumption:
    40 W
Dimensions (w/h/d) (Approx.):
    190 × 141 × 273 mm
Mass (Approx.):
    2.8 kg
Supplied accessories:
    Remote Commander (RM-SCD30)(1)
    R6 (Size AA) batteries (2)
    AM loop antenna (1)
    FM lead antenna (1)
    Video cord (1)
    Speaker pads (8)

Design and specifications are subject to change without notice.

eco info

- Standby power consumption: 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.

Guide to the Control Menu display

Use the Control Menu to select a function and to view related information. Press
 DISPLAY 26 repeatedly to turn on, turn off or change the Control Menu display as
follows:

Control Menu display 1 → Control Menu display 2 (appears for certain discs only) →
Control Menu display off → Control Menu display 1 → …

Control Menu display

The Control Menu display 1 and 2 will show different items depending on the disc type.
Example: Control Menu display 1 when playing a DVD VIDEO

Currently playing title number

Currently playing chapter number

Total number of titles

Total number of chapters

Playback status (▶ Playback,
❙❙ Pause, ■ Stop, etc.)

Control Menu items

Selected item

Type of disc being played back

Elapsed playing time

Current setting

Options

Function name of selected Control Menu item

Operation message

Additional Information
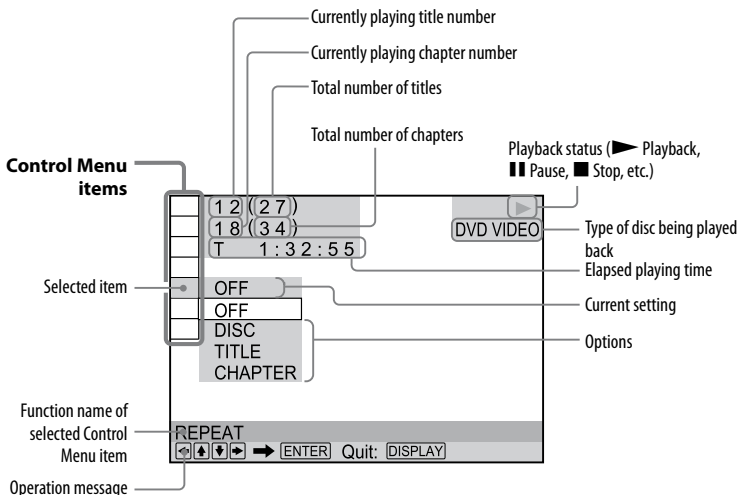
List of Control Menu items

Item	Item Name, Relevant Disc Type, Function
	TITLE/SCENE/TRACK `DVD-V` `DVD-VR` `VIDEO CD` Selects the title, scene, or track to be played back.
	CHAPTER/INDEX `DVD-V` `DVD-VR` `VIDEO CD` Selects the chapter or index to be played back.
	TRACK `CD` `DATA CD` `DATA DVD` Selects the track to be played back.
	ORIGINAL/PLAY LIST `DVD-VR` Selects the playback sequence either to the originally recorded sequence or to the playlist created on the disc.
	TIME/TEXT `DVD-V` `DVD-VR` `VIDEO CD` `CD` `DATA CD` `DATA DVD` Checks the elapsed playing time and the remaining time. Inputs the time code for picture and music searching. Displays the text information on the DVD TEXT discs and MP3 audio tracks.
	PROGRAM `VIDEO CD` `CD` Plays back the track in the order you want.
	SHUFFLE `VIDEO CD` `CD` `DATA CD` `DATA DVD` Plays back the track in random order.
	REPEAT `DVD-V` `DVD-VR` `VIDEO CD` `CD` `DATA CD` `DATA DVD` Plays back a disc repeatedly, the entire disc (all titles/all tracks/all albums) repeatedly or one title/chapter/track/album/file repeatedly.
	A/V SYNC `DVD-V` `DVD-VR` `VIDEO CD` `DATA CD` `DATA DVD` Sets the delay time between the sound and display.
	PARENTAL CONTROL `DVD-V` `VIDEO CD` `CD` Sets to prohibit playback on this system.

Item	Item Name, Relevant Disc Type, Function
🧰	**SETUP** `DVD-V` `DVD-VR` `VIDEO CD` `C D` `DATA CD` `DATA DVD` **QUICK Setup** Use QUICK SETUP to choose the language of the on-screen display and the aspect ratio of the TV. **CUSTOM Setup** In addition to the QUICK SETUP setting, you can adjust other settings. **RESET** Returns the settings in "SETUP" to the default setting.
🎵	**ALBUM** `DATA CD` `DATA DVD` Selects the album to be played back.
🖼	**FILE** `DATA CD` `DATA DVD` Selects the JPEG image file to be played back.
📑	**DATE** `DATA CD` `DATA DVD` Displays the date when the picture was taken by a digital camera.
📸	**INTERVAL** `DATA CD` `DATA DVD` Specifies the duration for which the slides are displayed on the TV screen.
🗂	**EFFECT** `DATA CD` `DATA DVD` Selects the transition effects to be used for changing slides during a slide show.
🖥	**MODE (MP3, JPEG)** `DATA CD` `DATA DVD` Selects the data type: MP3 audio track (AUDIO), JPEG image file (IMAGE) or both (AUTO) to be played back when playing a DATA CD/DVD.

Additional Information

Language code list

The language spellings conform to the ISO 639:1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malay	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Telugu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
1144	English	1301	Korean	1495	Sanskrit	1632	Xhosa
1145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba
1149	Spanish	1307	Kurdish	1501	Sangho	1684	Chinese
1150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu
1151	Basque	1313	Latin	1503	Singhalese	1703	Not specified
1157	Persian	1326	Lingala	1505	Slovak		
1165	Finnish	1327	Laothian	1506	Slovenian		
1166	Fiji	1332	Lithuanian	1507	Samoan		
1171	Faroese	1334	Latvian; Lettish	1508	Shona		
1174	French	1345	Malagasy	1509	Somali		
1181	Frisian	1347	Maori	1511	Albanian		
1183	Irish	1349	Macedonian	1512	Serbian		

Parental Control area code list

Code	Area	Code	Area	Code	Area	Code	Area
2044	Argentina	2165	Finland	2362	Mexico	2149	Spain
2047	Australia	2174	France	2376	Netherlands	2499	Sweden
2046	Austria	2109	Germany	2390	New Zealand	2086	Switzerland
2057	Belgium	2248	India	2379	Norway	2528	Thailand
2070	Brazil	2238	Indonesia	2427	Pakistan	2184	United Kingdom
2079	Canada	2254	Italy	2424	Philippines		
2090	Chile	2276	Japan	2436	Portugal		
2092	China	2304	Korea	2489	Russia		
2115	Denmark	2363	Malaysia	2501	Singapore		

Additional Information

Bluetooth wireless technology

Bluetooth wireless technology is a short-range wireless technology linking digital devices, such as personal computers and digital still cameras. Using the Bluetooth wireless technology, you can operate the units involved within a range of about 10 meters.

The Bluetooth wireless technology is commonly used between two devices, but a single device can be connected to multiple devices.

You do not need wires to get connected as you do with a USB connection, and you do not need to place the devices face to face as you do with wireless infrared technology. You can use the technology with one Bluetooth device in your bag or pocket.

Bluetooth wireless technology is a global standard supported by thousands of companies. These companies produce products that meet the global standard.

Supported Bluetooth version and profiles

Profile refers to a standard set of capabilities for various Bluetooth product capabilities. This system supports the following Bluetooth version and profiles.

Supported Bluetooth version:
　Bluetooth Standard version 2.0
Supported Bluetooth profiles:
　A2DP (Advanced Audio Distribution Profile)
　AVRCP (Audio Video Remote Control Profile)

Effective communication range

Bluetooth devices should be used within approximately 10 meters (unobstructed distance) of each other. The effective communication range may become shorter under the following conditions.

— When a person, metal object, wall or other obstruction is between the devices with a Bluetooth connection
— Locations where a wireless LAN is installed
— Around microwave ovens that are in use
— Locations where other electromagnetic waves occur

Effects of other devices

Bluetooth devices and wireless LAN (IEEE 802.11b/g) use the same frequency band (2.4 GHz). When using your Bluetooth device near a device with wireless LAN capability, electromagnetic interference may occur. This could result in lower data transfer rates, noise, or inability to connect. If this happens, try the following remedies:

— Try connecting this system and Bluetooth mobile phone or Bluetooth device when you are at least 10 meters away from the wireless LAN equipment.
— Turn off the power to the wireless LAN equipment when using your Bluetooth device within 10 meters.

Effects on other devices

The radio waves broadcast by this system may interfere with the operation of some medical devices. Since this interference may result in malfunction, always turn off the power on this system, Bluetooth mobile phone and Bluetooth device in the following locations:

— In hospitals, on trains, in airplanes, at gas stations, and any place where flammable gasses may be present

— Near automatic doors or fire alarms

Notes

- This system supports security functions that comply with the Bluetooth specification as a means of ensuring security during communication using Bluetooth technology. However, this security may be insufficient depending on the setting contents and other factors, so always be careful when performing communication using Bluetooth technology.

- Sony cannot be held liable in any way for damages or other loss resulting from information leaks during communication using Bluetooth technology.

- Bluetooth communication is not necessarily guaranteed with all Bluetooth devices that have the same profile as this system.

- Bluetooth devices connected with this system must comply with the Bluetooth specification prescribed by the Bluetooth SIG, Inc., and must be certified to comply. However, even when a device complies with the Bluetooth specification, there may be cases where the characteristics or specifications of the Bluetooth device make it impossible to connect, or may result in different control methods, display or operation.

- Noise may occur or the audio may cut off depending on the Bluetooth device connected with this system, the communications environment, or surrounding conditions.

Playable Bluetooth devices

You can check the websites below for the Bluetooth compatible devices.
For customers in the U.S.A.:
<http://www.sony.com/shelfsupport>
For customers in Canada:
English <http://www.sony.ca/ElectronicsSupport/>
French <http://fr.sony.ca/ElectronicsSupport/>
For customers in Europe:
<http://sonydigital-link.com/dna>
For customers in Latin America:
<http://www.sony-latin.com/pa/info>
For customers in Asia and Oceania:
<http://www.css.ap.sony.com/>

Additional Information

Glossary

Album

Section of a music or picture piece on a DATA CD or DATA DVD containing MP3 audio tracks, JPEG image files.

Chapter

Subdivision of a title on a DVD VIDEO. A title is composed of several chapters.

Dolby Digital

This sound format for movie theaters is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range and a subwoofer channel for deep bass is independently provided. This format is also called "5.1" because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

DTS

Digital audio compression technology that the Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround. The surround channel is stereo and there is discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

DVD VIDEO

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as an AUDIO CD.
The data capacity of a single-layer and single-sided DVD VIDEO, at 4.7 GB (Giga Byte), is 7 times that of an AUDIO CD. Furthermore, the data capacity of a dual-layer and single-sided DVD VIDEO is 8.5 GB, a single-layer and double-sided DVD VIDEO 9.4 GB, and a dual-layer and double-sided DVD VIDEO 17 GB. The picture data uses the MPEG 2 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD VIDEO also uses variable rate coding technology that changes the data to be allocated according to the status of the picture. The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD VIDEO.

DVD-RW

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

File

A JPEG image file recorded on a DATA CD or DATA DVD. ("File" is an exclusive definition for this system.) A single file consists of a single image.

Film based software, Video based software

DVD VIDEOs can be classified as Film based or Video based software. Film based DVD VIDEOs contain the same images (24 frames per second) that are shown at movie theaters. Video based DVD VIDEOs, such as television dramas or sitcoms, displays images at 30 frames (or 60 fields) per second.

Interlace format (Interlaced scanning)

The Interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice-alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

Multi-angle function

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVD VIDEOs.

Multilingual function

Several languages for the sound or subtitles in a picture are recorded on some DVD VIDEOs.

Parental Control

A function of the DVD VIDEO to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Version 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Progressive format (sequential scanning)

In contrast to the Interlace format, the progressive format can reproduce 50 — 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system, 625 lines for PAL system). The overall picture quality increases and still images, text and horizontal lines appear sharper. This format is compatible with the 525 or 625 progressive format.

Region Code

This system is used to protect copyrights. A region code is allocated on each DVD system or DVD VIDEO according to the sales region. Each region code is shown on the unit as well as on the disc packaging. The system can play back the discs that match its region code. The system can also play back discs with the "⊕" mark. Even when the region code is not shown on the DVD VIDEO, the region limit may still be activated.

Scene

On a VIDEO CD with PBC functions, the menu screens, moving pictures and still pictures are divided into sections called "scenes."

Title

The longest section of a picture or a music piece on a DVD VIDEO; a movie, etc., for a picture piece on video software, or the entire album in audio software.

Track

Section of a picture or a music piece on a VIDEO CD, CD, or MP3. An album is composed of several tracks (MP3 only).

VIDEO CD

A compact disc that contains moving pictures.
The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.
VIDEO CDs also contain compact audio data.
Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional AUDIO CDs.
There are 2 versions of VIDEO CDs.

- Version 1.1: You can play back only moving pictures and sounds.
- Version 2.0: You can play back high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

Index

Numerics

A

B

C

D

E

F

H

I

J

L

M

O

P

Additional Information

Continued ⟶